Holly Springs Town Hall

Holly Springs, North Carolina

100% Construction Documents - Review Documents

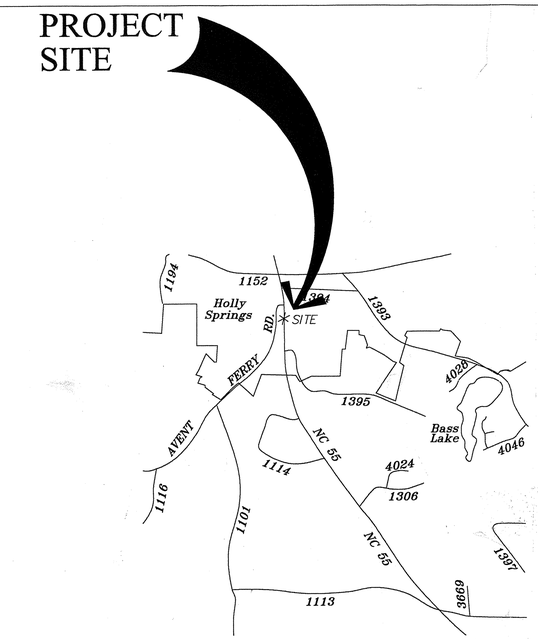
Little&Associates Architects
4309 Emperor Blvd. Suite 220
Durham, NC 27703
(919)474-2500
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April 30, 2002
LAA Project No. 511-5760-00

Holly Springs Town Hall - Mainstreet Elevation



VICINITY MAP



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MECHANICAL

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ELECTRICAL

E000 ELECTRICAL SYMBOLS & SCHEDULES

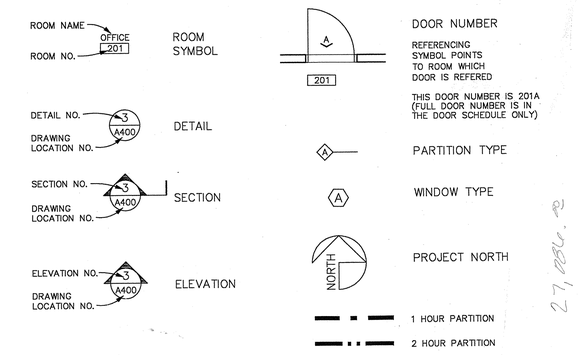
E100 SITE PLAN

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SYMBOL LEGEND



LITTLE & ASSOCIATES ARCHITECTS, INC. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 33 NORTH CAROLINA CHARLOTTE, N. C.

ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

APPENDIX B

CODE INFORMATION – TOWN HALL

Name of Project: Holly Springs Town Hall

Address: 128 South Main Street Holly Springs, NC 27540

Proposed Use: Town Hall

Owner/Contact Person: Chuck Simmons Phone # (919) 552-6221

Code Enforcement Jurisdiction: Holly Springs, North Carolina

DESIGNER OF RECORD:

DESIGNER	NAME	LICENSE#	PHONE#
Architectural	Robert W. Bishop, AIA	5781	(919) 474.2504
Electrical	Charles F. Hall, PE	3394	(704) 561.3434
Plumbing	Dave L. Cale, PE	25996	(919) 474.2500
Mechanical	David L. Cale, PE	25996	(919) 474.2500
Structural	W. Dale Thompson, PE	8246	(704) 561.8716
Sprinkler–Standpipe	–	–	(–)
Fire Alarm	–	–	(–)
Civil	Jim Compton, PE	17255	(919) 856.1550

BUILDING DATA:

Occupancy: ☐ Assembly ☒ Business ☐ Educational ☐ Mercantile ☐ Hazardous ☐ Factory–Industrial ☐ Institutional (unrestrained) ☐ Institutional (restrained) Use Condition ☐ Residential ☐ Storage

Mixed Occupancy? Yes ☐ No ☒ Separation: ____ Hr.

Construction Type: I ☐ II ☐ III ☐ IV(P) ☐ IV(UP) ☐ V(P) ☐ V(UP) ☒ VI(P) ☐ VI(UP) ☐

Mixed Construction: Yes ☐ No ☒ Type ____

Sprinkled? Yes ☐ No ☒ (13 13R 13D): ____

Fire District? Yes ☒ No ☐

Building Height: 46'–0" Feet 2 Number of Stories

Mezzanine? Yes ☐ No ☒

High Rise? Yes ☐ No ☒

Gross Building Area:

	(Foot Print) Sq. Ft.		(Foot Print) Sq. Ft.
Basement	4,327	4th Floor	
1st Floor	12,075	5th Floor	
2nd Floor	11,795	6th Floor	
3rd Floor		14th Floor	

Total Gross Area: 28,247 sq. ft.

Area Increase? Yes ☐ No ☒ Yes: Code Reference: ____

If yes, calculations:

FIRE RESISTANCE RATINGS

	Required Hourly [2]	Detail # & Sheet #	% Wall Opening [1]	Design No. for Rated Assemblies [5]
Party/Firewalls:	N/A	N/A	N/A	N/A
Exterior bearing Walls:				
North	N/C	N/A	N/A	N/A
East	1 / N/C	G002/G003	40/ N/A	U424
West	2 / N/C	G002/G003	20/ N/A	U424
South	2/ N/C	G002/G003	10/ N/A	U424
Exterior non-bearing Walls:				
North	N/C	N/A	N/A	N/A
East	1 / N/C	G002/G003	40/ N/A	U424
West	2 / N/C	G002/G003	20/ N/A	U424
South	2/ N/C	G002/G003	10/ N/A	U424

	Required Hourly [2]	Detail # & Sheet #	Design No. for Rated Penetrations: [5]	Design No. for Rated Assemblies: [5]
Interior Walls:				
Bearing	N/C	–	–	–
Non–bearing	N/C	–	–	–
Tenant Separation	N/A	–	–	–
Ceiling–Floors Assembly:	1	–	–	–
Beams:	N/C	–	–	–
Columns:	N/A	–	–	–
Ceiling–Roof Assembly:	N/C	–	–	–
Vertical Shafts:	1	–	–	–
Chases–P.E.M.:	1	–	–	–
Mixed Occupancy Separation:	N/A	–	–	–
Tenant Separation:	N/A	–	–	–

FOOTNOTES:

1. Required if wall to property line or assumed line is less than 30 feet.
2. All fire rated walls shall be identified by hatching, shading, etc.; show legend.
3. Identify code section when using any special exceptions, etc.
4. Stairs, elevators and/or atrium.
5. Details or reproductions of rated assemblies/penetrations shall be incorporated on the drawings.
6. N/C = Noncombustible.

LIFE SAFETY SYSTEM:

Emergency Lighting and Exit Signs Yes ☒ No ☐

Fire Alarm and Smoke Detection Systems Yes ☒ No ☐

Panic Hardware Yes ☒ No ☐

EXIT REQUIREMENTS:

Dead end limit–maximum condition 20 Feet

Travel distance to exit–maximum condition 250 Feet

Number of exits:

Total Square footage of floor 12,075 divided by net/sq.ft. per occupancy 100 = 121 Total number of people on floor

Number of doors provided 2, number of doors required 2

DESIGN LOADS:

Roof live load: 20 psf.

Wind: 80 mph Importance Factor: 1.2

VOLUME I Section 1606 N/A ASCE–7 93 Exposure C

Floor: Varies, see sheet S101 psf.

Snow: 15 psf.

Lateral design Control: ☐ Earthquake ☒ Wind

Calculated Wind Base Shears (for MWFRS) Vx = 120 k, Vy = 283 k

Lateral design Resistance: (i.e. braced Frame/Moment Frame/Shear Wall) BRACED FRAME & SHEAR WALL

SEISMIC PERFORMANCE CATEGORY A

Compliance with Section 1607.3.6.1.1 Ties and continuity? N/A

SEISMIC PERFORMANCE CATEGORY B and C

Provide the following Seismic Design Parameters:

Effective peak velocity – related acceleration Av = 0.075

Peak acceleration coefficient Aa = 0.050

Seismic Hazard Exposure Group SHEG = III

Seismic Performance Category Spc = C

Site Coefficient S = 1.0

Basic Structural System (check one):

☐ Bearing Wall ☐ Dual with Special Moment Frame

☒ Building Frame ☐ Dual with Intermediate R/C or Special Steel

☐ Moment Frame ☐ Inverted Pendulum

Response Modification Factor Rx = 7.0, Ry = 7.0

Deflection Amplification Factor Cdx = 4.0, Cdy = 4.0

Building Height Limit, feet H = NL

Seismic base shear V = 74 k

Modal Analysis Procedure:

Modal Base Shear Vt = N/A

ELF Procedure Base Shear V = 74 k

Architectural, Mechanical, Components anchored per force CcP? Yes

Soil Bearing Capacities:

Field Test (provided copy of test report): 3000 psf

Presumptive Bearing capacity: N/A psf

Pile size, type, and capacity: N/A

MECHANICAL SYSTEMS, SERVICE AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive ☒ Performance ☐ Energy Cost Budget ☐

Thermal Zone III

Exterior design conditions

winter dry bub 16F Degrees

summer dry bub 92F Degrees

Interior design conditions

winter dry bub 60F Degrees

summer dry bub 75F Degrees

relative humidity 50%

Building heating load 222.2 MBH

Building cooling load 973.9 MBH

Mechanical Space Conditioning System

Unitary

description of unit See M401

heating efficiency See M401

cooling efficiency See M401

heat output of unit See M401

cooling output of unit See M401

Boiler

total boiler output. If over sized, state reason N/A

Chiller

total chiller capacity. If over sized, state reason N/A

List equipment efficiencies See Schedule on Drawing M

Equipment schedules with motors (mechanical systems)

motor horsepower See M401

number of phases See M401

minimum efficiency See M401

motor type See M401

# of poles See M401

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the mechanical systems and equipment requirements of the North Carolina State Building Code, Volume X–Energy.

SIGNED: ____

NAME: David L. Cale, P.E.

TITLE: Mechanical Engineer of Record

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

Prescriptive ☒ Performance ☐ Energy Cost Budget ☐

Provide a standard riser diagram which indicates designated points for check metering. Provide a standard panel schedule description which identifies different enduse loads

Lighting shedule

lamp type required in fixture See Sheet E000

number of lamps in fixture See Sheet E000

ballast type used in the fixture See Sheet E000

total wattage per fixture See Sheet E000

total interior wattage specified vs. allowed . . Specified: 34,960 W; Allowed: 46,608 W

total exterior wattage specified vs. allowed . . Specified: 3,578 W; Allowed: 4,366 W

Equipment schedules with motors (not used for mechanical systems)

motor horsepower N/A

number of phases N/A

minimum efficiency N/A

motor type N/A

# of poles N/A

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the electrical system and equipment requirements of the North Carolina State Building Code, Volume X–Energy.

SIGNED: ____

NAME: Charles F. Hall, PE

TITLE: Electrical Engineer of Record

Energy Requirements:

The following data shall be considered miminum and any special attribute required to meet the energy code shall also be provided. Each designer shall furnish the required portions of the project information for the plan data sheet and shall sign the Designer's statement for the appropriate portion, as required by G.S. 143–151.33. If energy cost budget method, state the annual energy cost budget vs. allowable annual energy cost budget.

THERMAL ENVELOPE

ADMINISTRATION BUILDING – METHOD OF COMPLIANCE:

Prescriptive ☒ Performance ☐ Energy Cost Budget ☐

Roof/ceiling Assembly 1 (Flat) – 11,387 sf

Description of assembly Membrane, insul., composite deck, A.T.C.

U–value of total assembly 0.063

R–value of insulation R–15

Skylights in each assembly None

U–value of skylight None

total square footage of skylights in each assembly None

Roof/ceiling Assembly 2 (Pitched) – 848 sf

Description of assembly: Composition Shingles, plywd. on metal deck, 6" Batt insulation, A.T.C.

U–value of total assembly 0.054

R–value of insulation R–21

Skylights in each assembly None

U–value of skylight None

total square footage of skylights in each assembly None

Exterior Wall 1 – 18,337 sf

Description of assembly: Brick, 2"airspace, 1/2"sheathing, 6" metal studs & insul., GWB

U–value of total assembly 0.048

R–value of insulation R–21

Openings (windows or doors with glazing)

U–value of assembly 0.39

shading coefficient 0.45

projection factor 0.00–0.25

low e required, if applicable to be provided w/ argon gas

Door R–values 3

Walls adjacent to unconditioned space (each assembly) None

Walls below grade – 800 sf

Description of assembly Solid 12" Masonry w/ 3" rigid insul.

U–value of total assembly 0.058

R–value of insulation R–15

Floors over unconditioned space (each assembly) None

Floor slab on grade – 538 LF

Description of assembly Poured Concrete w/ 3" rigid insul.

U–value of total assembly 0.07

R–value of insulation 15.0

Horizontal/Vertical requirement 2'–0"/3'–0"

slab heated No

Envelope Compliance was verified with COMcheck–EZ Software Version 2.1 Release 1b Envelope PASSES: Design 30% Better than Code minimum

DESIGNER STATEMENT:

To the best of my knowledge and belief, the design of this building complies with the thermal envelope requirements of the North Crolina State Building Code, Volume X–Energy.

SIGNED: ____

NAME: Robert W. Bishop, AIA

TITLE: Architect of Record

PARKING:

PARKING SPACES: 124 Required 86 Provided

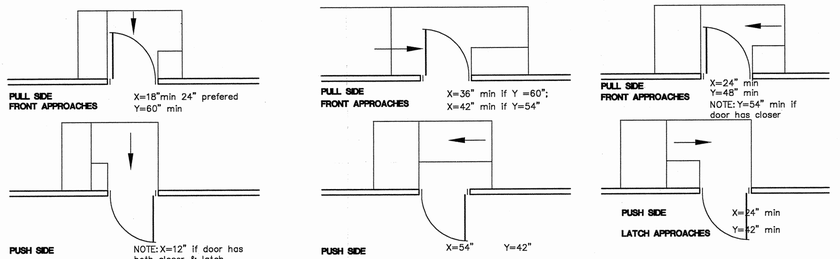
Handicap spaces 5 provided (13' wide and R7–8 sign)

Special approval by Department of Insurance or Local Jurisdiction, describe below: Holly Springs Downtown District Zoning EXEMPTION FROM REQUIREMENTS

GENERAL NOTES

1. SEE 1/8" AND 1/4" SCALE FLOOR PLANS FOR INTERIOR DIMENSIONS, WALL TYPES, FINISHES, SECTION AND DETAIL CUTS.
2. SEE 1/8" SCALE ARCHITECTURAL AND STRUCTURAL PLANS FOR COLUMN AND GRID LAYOUT.
3. ALL EXTERIOR STUD WALLS TO RECEIVE MIN. R–19 INSULATION. ALL EXTERIOR SOFFITS TO RECEIVE MIN. R–19 UNLESS NOTED OTHERWISE.
4. MASONRY NOTES:
   A) ALL JOINTS IN MASONRY SHALL BE SOLID WITH MORTAR (BED, HEAD AND COLLARS). VOIDS IN JOINTS SHALL BE CONSIDERED CAUSE FOR REJECTION OF WORK.
   B) ALL CAVITIES SHALL BE KEPT CLEAR OF MORTAR DROPPINGS.
5. LINTEL NOTES:
   A) ALL LINTELS SHALL HAVE A MINIMUM 8" BEARING AT ENDS: FILL BLOCK CORES SOLID AT BEARING 2 COURSES DEEP X 16" LONG (TYPICAL UNLESS NOTED OTHERWISE).
   B) COORDINATE LINTELS W/ MECHANICAL OPENINGS IN MASONRY WALLS. COORDINATE LINTEL SIZES W/ STRUCTURAL REQUIREMENTS FOR THIS TYPE OPENING.
6. SEE STRUCTURAL DRAWINGS FOR SLAB CONTROL JOINT LOCATIONS.
7. ALL WOOD FRAMING, NAILERS, SHIMS, AND BLOCKING TO BE FIRE RETARDENT TREATED UNLESS NOTED OTHERWISE.
8. COORDINATE AND INSTALL ALL BLOCKING IN WALLS REQUIRED BY PRODUCT MFG. OR FOR ITEMS TO BE PURCHASED AND INSTALLED BY THE OWNER.
9. GC TO COORDINATE CIVIL, STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR PROJECT DESIGN AND LAYOUT.
10. SEE 1/8" SCALE REFLECTED CEILING PLANS FOR CEILING TYPES AND FINISHES.
11. SEE SITE PLAN FOR PARKING LOT AND SIDEWALK LAYOUT.
12. ALL STUD FRAMING AND DRYWALL TO BE COORDINATED BY GENERAL CONTRACTOR WITH ALL NECESSARY TRADES FOR ROUGH OPENINGS TO ACCOMODATE ANY EQUIPMENT OR PREFABRICATED ITEMS FURNISHED BY OWNER, PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS. GENERAL CONTRACTOR TO ALSO COORDINATE ALL CASEWORK TO ACCOMODATE ALL APPLIANCES.
13. IF NOT DETAILED OR SPECIFIED ALL FACE BRICK TO BE ANCHORED TO BACK UP SUPPORT. BACK UP SUPPORT TO BE EITHER STEEL STUD, STEEL COLUMNS OR CMU MASONRY CONTRACTOR TO USE CORRECT ANCHOR DEVICE FOR MATERIAL.
14. ANY UNIT MASONRY THAT IS NOT DIMINSIONED ON BLOCK COURSING IS TO BE LAID WITH THE CUT UNITS TO THE INSIDE CORNER OF THE LENGTH OF THE WALL.
15. GENERAL CONTRACTOR AND MECHANICAL CONTRACTOR TO COORDINATE BRICK VENT LOCATIONS TO MATCH AS SHOWN ON EXTERIOR ELEVATIONS OF THE ARCHITECTURAL DRAWINGS
16. GENERAL, PLUMBING, MECHANICAL, ELECTRICAL CONTRACTORS TO COORDINATE LOCATION AND PLACEMENT OF ALL HVAC EQUIPMENT PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. ALL SPACE REQUIRMENTS FOR WIDTH, DEPTH AND HEIGHT SHOULD BE VERIFIED FOR ADQUATE INSTALLATION.
17. GENERAL CONTRACTOR TO COORDINATE ALL FLOOR AND ROOF OPENINGS TO ACCOMODATE ALL EQUIPMENT,SHAFTS, OR OTHER CONSTRUCTION
18. GENERAL CONTRACTOR TO COORDINATE WITH PLUMBING CONTRACTOR TO PROVID TREATED WOOD BLOCKING AT ALL TOILETS FOR FUTURE H.C. GRAB BARS.

DOOR CONFIGURATIONS:



ERECT ALL DOOR FRAMES & ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATION.

NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF DOOR FRAMES & ADJACENT WALLS.

NOTE: ALL DOORS IN PUBLIC SPACES OR COMMON AREAS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES AS INDICATED

Little & Associates Architects

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

Holly Springs Town Hall
Holly Springs, North Carolina

Project

GENERAL INFORMATION

Sheet Title

Division President
Robert Bishop, AIA

Job Captain
Brian N. Simpson,CDT,CSI

Drawn By
G. Bryan Payne, CDT

Date Drawn
3.22.02

Drawing File Name
G001.DWG 1=1

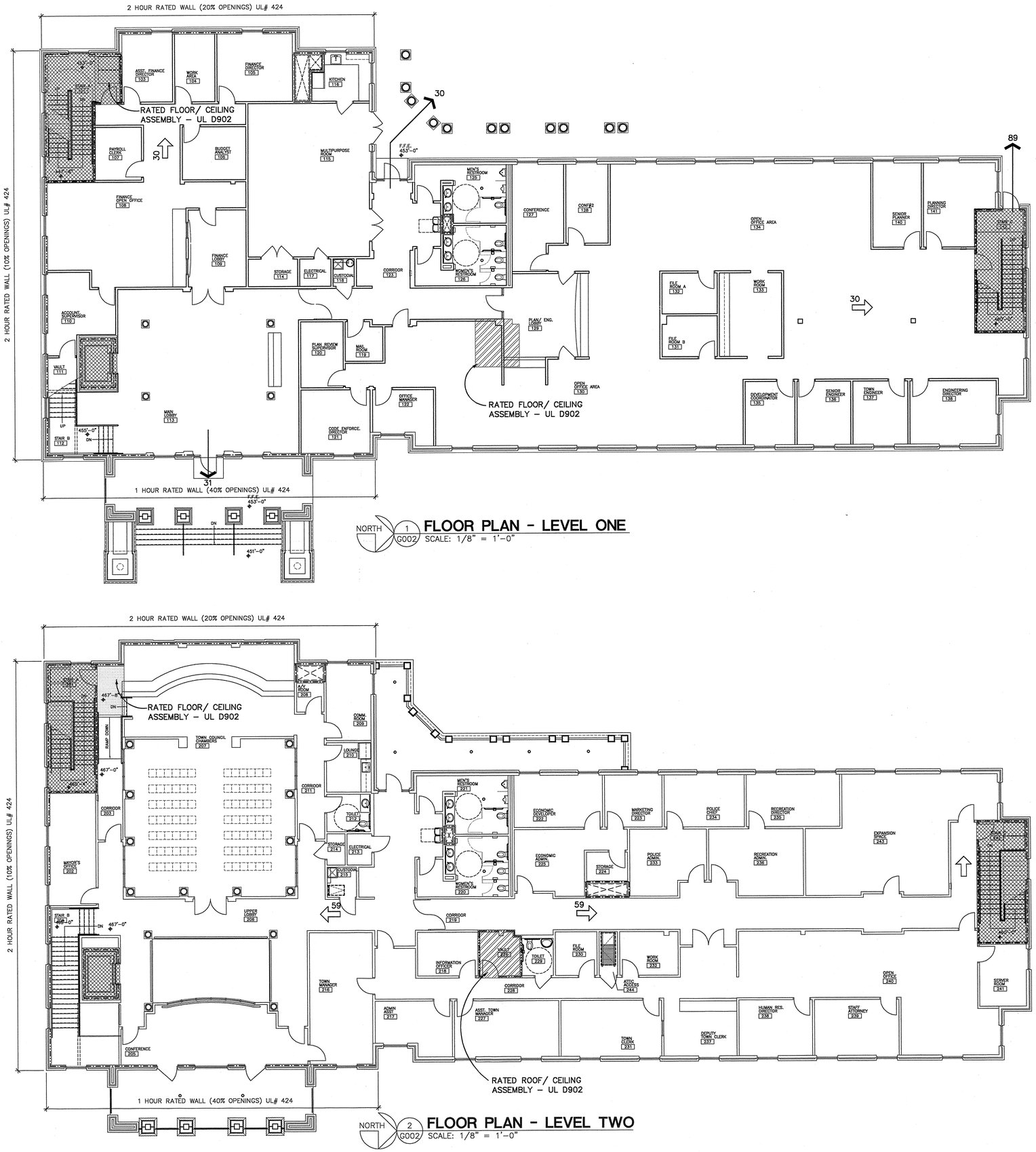
Revisions
No ____ Date ____

Issue Date: April 30, 2002

Project Number
511576000

Sheet G0

CONSTRUCTIO



NORTH 1 G002 **FLOOR PLAN – LEVEL ONE**
SCALE: 1/8" = 1'-0"

NORTH 3 G002 **FLOOR PLAN – LEVEL ZERO**
SCALE: 1/8" = 1'-0"

NORTH 2 G002 **FLOOR PLAN – LEVEL TWO**
SCALE: 1/8" = 1'-0"

LIFE SAFETY LEGEND

- 300 — EXIT WITH EGRESS CAPACITY : 300
- PATH OF EXIT DISCHARGE
- EXTERIOR EXITWAY STAIR OR ELEVATOR SHAFT
- FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY – 1 HOUR
- FIRE RATED FLOOR/CEILING OR ROOF/CEILING ASSEMBLY – 2 HOUR
- 1 HOUR FIRE SEPARATION
- 2 HOUR FIRE SEPARATION

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: LIFE SAFETY PLANS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

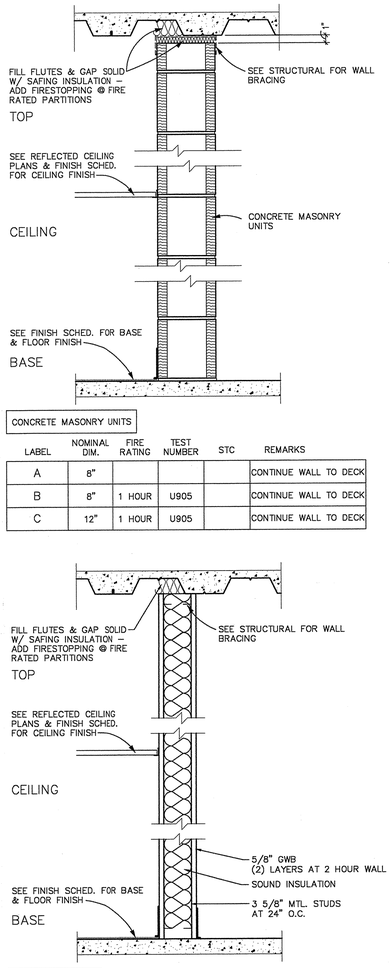
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576002
Sheet: G002

CONSTRUCTION DOCU

PARTITION SCHEDULE

SCALE: 1 1/2" = 1'-0"



CONCRETE MASONRY UNITS

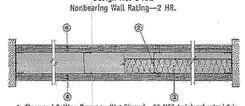
LABEL	NOMINAL DIM.	FIRE RATING	TEST NUMBER	STC	REMARKS
A	8"				CONTINUE WALL TO DECK
B	8"	1 HOUR	U905		CONTINUE WALL TO DECK
C	12"	1 HOUR	U905		CONTINUE WALL TO DECK

METAL STUD WALL

LABEL	NOMINAL DIM.	FIRE RATING	TEST NUMBER	STC	REMARKS
D	3 5/8"				CARRY WALL 6" ABOVE FINISH CEILING
E	3 5/8"				CONTINUE WALL TO DECK
F	6"				CONTINUE WALL TO DECK
G	3 5/8"	1 HOUR	U465		CONTINUE WALL TO DECK
H	3 5/8"	2 HOUR	U412		CONTINUE WALL TO DECK

Design No. U412

Nonbearing Wall Rating—2 HR.



1. **Floor and Ceiling Runner**—(Not Shown)—25 MSG (min) galv steel U in. high, return legs 1-5/8 in. wide (min), attached to floor and ceiling with fasteners 24 in. OC.
2. **Steel Studs**—1-5/8 in. wide (min), 1-1/4 in. legs, 1/2 in. return, formed of 25 MSG (min) galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
3. **Batts and Blankets***—(Optional)—Mineral wool or glass fiber batts, partially or completely filling stud cavity, faction each batt to wallboard base layer with a min 7/16 in. long staple. Use two staples for each 4 ft long piece. Drive one staple in the center of each piece and a staple at each corner approx 3 in. from edge.
   See Batts and Blankets (BZZZ) category for names of manufacturers.
4. **Wallboard, Gypsum***—1/2 in. thick, Wallboard attached vertically in two layers. (Laminated System) Inner layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. along vertical edges and 24 in. O.C. in the field. Outer layer laminated to inner layer with joint compound, applied with a notched spreader producing continuous beads of compound about 3/8 in. in diameter, spaced not greater than 2 in. O.C. Joints of laminating outer layer offset 12 in. from inner layer joints. Outer layer wallboard attached to inner layer with 1-1/2 in. long Type G steel screws spaced 24 in. O.C. along edges and center line of each sheet.
   Optional, (Direct Attached System) Wallboard applied vertically in two layers, Inner layer attached to studs with 1 in. long Type S steel screws spaced 24 in. O.C. in the field and along the vertical edges. Outer layer attached to the studs over the inner layer with 1-5/8 in. long Type S steel screws spaced 12 in. O.C. in the field, along the vertical edges, and in the floor and ceiling runners. Joints of screw-attached outer layer offset from inner layer joints.
   Optional, (Direct Attached System) Inner layer wallboard applied vertically, outer layer wallboard applied horizontally. Inner layer attached to studs with 1 in. Type S Steel screws spaced 24 in. O.C. along vertical edges and in the field. Outer layer attached to the studs over the inner layer with 2-5/8 in. long Type S steel screws spaced 12 in. O.C. in the field, along the vertical edges, and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.
   Outer layer wallboard joints covered with joint tape and ready mixed joint compound. Screw heads covered with min two coats of joint compound. As an alternate, min 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
   American Gypsum Co.—Type AG-C.
   Canadian Gypsum Company—Type C, IP-X2 or WRC.
   Celotex Corp.—Type FRP or 3. When Type 3 wallboard is used, both layers of gypsum wallboard must be screw-attached to the steel studs and floor and ceiling runners. Screw spacing for screws spaced maximum 12 in. OC at the joint edges and in the field (laminating adhesive optional).
   Continental Gypsum Company—Types GS-C, GSB-5, CGTC-C.
   G-P Gypsum Corp.—Types 5, C.
   James Hardie Gypsum Inc.—Type Max'C'.
   Lafarge Gypsum, A Div. of Lafarge Corp.—Type LGFC-C.
   National Gypsum Co., Charlotte, NC—Types FSW-C.
   Pabco Gypsum Co.—Type PG-C.
   Republic Gypsum Co.—Type RG-C.
   Standard Gypsum Corp.—Type SG-C.
   Temple-Inland Forest Products Corp.—Type TG-C.
   United States Gypsum Co.—Type C, IP-X2 or WRC.
   Yeso Panamericana SA de CV—Type C, IP-X2 or WRC.

*Bearing the UL Classification Marking

Design No. U465

Nonbearing Wall Rating—1 HR.

7. **Floor and Ceiling Runners**—(not shown)—Channel shaped runners, 3-5/8 in. wide (min), 1-3/4 in. legs, formed from min No. 25 MSG (min No. 29 MSG when Item 6C is used) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
2. **Steel Studs**—Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 5/8 in. folded back returns, formed from min No. 25 MSG (min No. 29 MSG when Item 6C is used) galv steel spaced 24 in. OC max.
3. **Batts and Blankets***—(Optional)—Mineral wool or glass fiber batts partially or completely filling stud cavity.
   See Batts and Blankets (BZZZ) category for names of Classified companies.
4. **Wallboard, Gypsum***—5/8 inch thick, Attached to steel studs and floor and ceiling track with 1 in. long Type S steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to base 6 (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.
   American Gypsum Co.—Type AG-C.
   Canadian Gypsum Company—Types AR, C, IP-X2, SCX, SHX, WRC or WRX.
   Continental Gypsum Company—Types CG-C, CGS-5, CGB-6, CGB-9, CGTC-C.
   G-P Gypsum Corp.—Types 5, 5-C, GPFSX.
   James Hardie Gypsum Inc.—Type Max'C'.
   Lafarge Gypsum, A Div. of Lafarge Corp.—Types LGFC6, LGFC-C.
   National Gypsum Co., Charlotte, NC—Types FSW-G, FSW-C.
   National Gypsum Co., Riyadh, Saudi Arabia—Type FR or WR.
   Pabco Gypsum Co.—Type PG-C.
   Republic Gypsum Co.—Type RG-C.
   Standard Gypsum Corp.—Type SG-C.
   Temple-Inland Forest Products Corp.—Type TG-C.
   United States Gypsum Co.—Types AR, C, IP-X2, SCX, SHX, WRC or WRX.
   Yeso Panamericana SA de CV—Type AR, C, IP-X2, SCX, SHX, WRC or WRX.
   Gypsum Co.—Type Westroc Fiberbond.
4A. **Wallboard, Gypsum***—(As an alternate to Item 4)—Nom 3/4 in. thick, 4 ft wide, installed as described in Item 4 with screw length increased to 1-3/4 in.
   Canadian Gypsum Company—Type AR.
   United States Gypsum Co.—Type AR.
   Yeso Panamericana SA de CV—Type AR.
4B. **Wallboard, Gypsum***—(As an alternate to Items 4 and 4A) —5/8 in. thick installed as described in Item 4. Joint covering (Item 9) not required.
   Canadian Gypsum Company—Type WSX.
   United States Gypsum Co.—Type SCX.
   Yeso Panamericana SA de CV—Type WSX.
4C. **Wallboard, Gypsum***—(As an alternate to Items 4, 4A and 4B) —5/8 in. thick gypsum panels, installed as described in Item 4 with Type S-12 steel screws. The length of the screws as specified under Item 4.
   Canadian Gypsum Company—Type FRX.
   United States Gypsum Co.—Type FRX.
5. **Joint Tape and Compound**—(Not shown)—For permanent joint compound, applied in two coats to joints and screw heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nominal 3/32 in. thick veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced.
6. **Furring Channel**—(Optional-Not Shown)—Resilient or MSG galv steel furring channels spaced vertically max 24 in. OC, flange portion attached to each intersecting stud with 5/8 in. long Type S-12 panhead steel screws. Not for use with Type FRX gypsum panels.

*Bearing the UL Classification Marking

Design No. U905

Bearing Wall Rating—2 HR

Nonbearing Wall Rating—2 HR



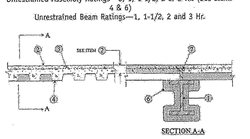
1. **Concrete Blocks***—Various designs. Classification D-2 (2 hr). See Concrete Blocks category-for list of eligible manufacturers.
2. **Mortar**—Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. **Portland Cement Stucco or Gypsum Plaster**—Add 1/2 hr to classification if used. Where combustible members are framed in walls, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
4. **Loose Masonry Fill**—Of cut stone spalls or filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellant vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
5. **Foamed Plastic***—(Optional-Not Shown)—1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
   Celotex Corp.—Type Thermax

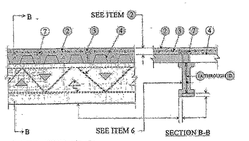
*Bearing the UL Classification Marking

Design No. D902

Restrained Assembly Ratings—1, 1-1/2, 2 and 3 Hr.
Unrestrained Assembly Ratings—0, 1, 1-1/2, 2 or 3 Hr. (See Items 4 & 6)

Unrestrained Beam Ratings—1, 1-1/2, 2 and 3 Hr.





1. **Beam**—W8X28, min size.
1A. **Steel Joists**—(Not shown)—As an alternate to Item 1—May be either uncoated or provided with a shop coat of paint. Composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max design stress of 30 ksi. The top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 1/4 in. thick and shall be 2-1/2 in. thick. Bottom chords shall consist of two round bars measuring 0.560 in. in diam. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and 5-1/16 in. long. Web members shall consist of 0.560 in. diam. bars. The min depth and weight shall be 8 in. and 4.9 lb/ft, respectively.
1B. **Steel Joists**—(Not shown)—As an alternate to Item 1—Composite or noncomposite and welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chords shall consist of two round bars measuring 0.675 in. in diam. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and shall be min 4-15/16 in long. The second web member at each end shall consist of 0.654 in. diam round bars. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when composite joists are used.
1C. **Steel Joists**—(Not shown)—As an alternate to Item 1—Composite or noncomposite, welded or bolted to end supports. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30,000 psi. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chords shall consist of two round bars measuring 0.675 in. in diam. The second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when noncomposite joists are used.
1D. **Steel Joists**—(Not shown)—As an alternate to Item 1—May be either uncoated or provided with a shop coat of paint. Composite or noncomposite. Welded or bolted to end supports. Designed per S.J.I. specifications for a max design stress of 30 ksi. The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by 0.127 in. thick. The bottom chords shall consist of two round bars measuring 0.566 in. in diam. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and 5-1/16 in. long. Web members shall consist of 0.565 in. diam bars. The min depth and weight shall be 8 in. and 4.9 lb/ft, respectively.
2. **Normal Weight or Lightweight Concrete**—Normal weight concrete, carbonate or siliceous aggregate, 2500 psi compressive strength, vibrated. Lightweight concrete, expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, 3000 psi compressive strength, vibrated, 4 to 7 per cent entrained air.

Restrained Assembly Rating, Hr	Concrete (Type)	Concrete Unit Weight, pcf.	Concrete Thickness, In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
1	Lightweight	107-113	2-1/2
2	Lightweight	107-113	3-5/8
1-1/2	Lightweight	107-113	4
2	Lightweight	107-113	3-1/4
3	Lightweight	107-116	3-1/2*
2	Lightweight	114-120	3-1/2
3	Lightweight	107-113	4-3/16
3	Lightweight	114-120	4-7/16

*With 2 and 3 in. deep steel floor units only.

3. **Welded Wire Fabric**—6x6 10/10 SWG.
4. **Steel Floor and Form Units***—Composite 1-1/2, 1-5/8, 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units, fluted units may be ribbed. Min gauges are 22 MSG for fluted and 20/20 for cellular and partial cellular units. The following combinations of units may be used:
   (1) All 2A, 2B, 2B or 3H in. wide cellular or partial cellular.
   (2) All fluted.
   (3) One or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular alternating with 3 in. deep fluted or other cellular.
   (4) Any blend of fluted and 2A, 2B, 2B or 3H in. wide cellular or partial cellular.
   (5) Corrugated, nom 1-5/16 or 2 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC but less than or equal to 12 in. OC steel deck stress shall not exceed 13 KSI.
   BHP Steel Building Products USA Inc.—24 in. wide Types 2WF24, 2WF24, 3WF24, 3WF24, B, BF-24, BM, BM00, BM00D, N, NF; 30 in. wide Type B-30, BF-30, BB; 36 in. wide Types 2WF36, 3WF36, 3WF36; B-36; 24 or 30 in. wide Types ASC2, ASC3.
   Bowman Metal Deck/Wheeling Corrugating Co. Div of Wheeling-Pittsburgh Steel Corp.—30 in. wide Types 1-1/2 in. V-Grip, 1-1/2 in. BV-Grip, 3 in. VW; 24 in. wide Types 3-1/2 in. VR4, 3 in. VW3, 1-1/2 in. VW3, 1-1/2 in. VW2, 21ZVW2-Wirevay, 31ZVW2-Wirevay, 2SBVW-Wirevay, 2SBVW-Wirevay; 24 or 32 in. wide Types 2SBV-Grip, 2SBV-Grip; 24 or 36 in. wide Types 21ZV-Grip, 31ZV-Grip; 36 in. wide Types 21ZVW3-Wirevay, 31ZVW3-Wirevay.
   Components for field-assembled cellular metal raceway suite:
   Raceway bottom—24 or 36 in. wide Types 21ZVS, 31ZVS; 24 or 36 in. wide Types 2SBVS, 3SBVS.
   Raceway cover plates—Types CP-12, CP-16.
   Raceway divider—Types DC-SD, DC-2S.
   Raceway-isolation trough—Types T-2B, T-2S, T-3D.
   Consolidated Systems, Inc.—24 in. wide Types CFB-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5; 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3; 24 in. wide Types B2C, B2FE, NC, NFC; 30 in. wide, Type B3C; 12 in. wide Mac-Way Cellular 45 MDW, 2-633 MIWA, 3-633 MIWA+, 30 in. wide, Mac-Cor Types 1 and 2.
   Deck West, Inc.—36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints of Type 2-DW and 3-DW may be fastened together with min 3 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC.
   Epic Metals Corp.—24 in. wide Types EC150, EC150 Inverted, EC300, EC366, ECP150, ECP150, ECP366, Epicore 6; 30 in. wide Types EC30150, ECBR1500; 36 in. wide Types EC356, EC266, ECP200.
   Gens-Metals Inc.—12 or 24 in. wide Types LF2, LF3.
   Jia Der Construction Material Co. Ltd.—24 or 36 in. wide Mac-Lok 3; 24 in. wide CFD-3.
   Peerless Enterprises, Div. of Tectum Ltd.—24 in. wide, Types T-150, -150F.
   Robertson, H. H.—QL Types, 24 in. wide, 3 or 3 Inverted, UOC, 21 or 21 Inverted, 2 in. 99, 121, AXX, NXX, TXX; 24 or 30 in. wide GXX, GXXN, GXXA; 36 in. wide 2 in. 99, AXX, NXX; 12 in. wide NXC, TXC; 12 in. wide non-composite Sec 12. Side joints of 99, 121, TXC, TXX, WXX may be welded together 60 in. OC. Side joints of 99, AXX, WXX, GXX, GXX-A, TXX may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC.
   Roof Deck, Inc.—36 in. wide Types LOK-1-1/2, LOK-1-1/2R; 24 in. wide Types LOK-2, LOK-3.
   Toman Building Components Inc.—24, 30 or 36 in. wide Types LXN-B, LXN-B Inverted; 24 or 36 in. wide Type LXN-3N; 36 in. wide Type LXN-2W.
   United Steel Deck, Inc.—12 or 24 in. wide, Types 1-1/2, 2, or 3 in. LOK-Floor and LOK-Floor Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell; 24 in. wide, Types N-LOK and N-LOK Cell.
   Verco Mfg., Inc.—Formlok Types, 24 or 36 in. wide, W2 and W3; 24 or 36 in. wide, B, BR; 24 in. wide, N 30 in; B, BR; 12 in. wide W2 or W3 units may be blended with 24 in. wide W2 or W3, respectively.
   Vulcraft, Div. of Nucor Corp.—24, 30 or 36 in. wide, Type 1.5 VI, 1.5VLI, 1.5VLP; 24 or 36 in. wide, Types 2VLI, 3VLI, 2VLP, 3VLP.
   Walker Systems Inc.—24 in. wide, Types 2 in. Wide, WR-Blend types, 24 in. wide, B, BR, BR, 1-5/8NStuds, S, SR, 3N, 3NF, 3WF, 1N, 3D, 3I or 3I Inverted, 3V, 3VLight, 3S, 3SR, 1B, 2B or 3B; 1-5/8 subz1fluNR and 24 in. wide 3NsubiFluNR only in blend with one or more 3V units.
   Wheeling Corrugating Co. Div of Wheeling-Pittsburgh Steel Corp.—30 in. wide Types SB-B16FF; -15B, -15BR, -15BRR, -15BRRR, -15BRRRR; 24 in. wide Types SB-DDR, -3DR, -B-B16FF, -P15FF, -P31FF on or -P35FF; 12 in. wide Type SB-P21LF or SB-P31FF; 36 in. wide Types B16LF, B16LFNW; 24 in. wide Types P34LF, P34LFNW; 12, 24 or 36 in. wide Types P31LF, P31LFNW; 24 in. wide Types P31FF, 30 in. wide Types TB125 and TB200, units may be galv/zinc.

   Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, 36 in. wide units, four welds per sheet for 12 in. OC and 18 in. wide and Sec. 32 units. Unless specified otherwise for specific units types, adjacent units buttwise-butt welded together 36 in. OC along side joints. For 3 Hr Rating, units with overlapping type side joints welded together 24 in. OC max.
   Min average and min individual density is 18 and 17 pcf, respectively for Types 1.5VLI, 1.5VLP, 2VLI, 3VLI, 2VLP, 3VLP, 2WF24, 3WF24, 2WF24, B, BF-24, BM, BM00, BM00D, N, NF; 30 in. wide Type B-30, BF-30, BB; 36 in. wide Types 2WF36, 3WF36, 3WF36; B-36; 24 or 30 in. wide Types ASC2, ASC3.
   Min average and min individual density is 19 and 17 pcf, respectively for Types 2VLI, 3VLI, 2VLP, 3VLP, Walker Systems Inc.—24 in. wide, Wide Types 2 in. Wide, WR-Blend types, 24 in. wide, B, BR, BR, 1-5/8NStuds, S, SR, 3N, 3NF, 3WF, 1N, 3D, 3I or 3I Inverted, 3V, 3VLight, 3S, 3SR, 1B, 2B or 3B; 1-5/8 subzlfluNR and 24 in. wide 3NsubiFluNR only in blend with one or more 3V units.
   Min average and min individual density is 19 and 17 pcf, respectively for Types SB and SB. Min average and min individual density of 22 and 19 pcf, respectively, for Type 40G. For method of density determination, refer to Design Information Section, Steel Deck Units.
   The thickness of the material on the Structural Members (Item 1, 1A, or 1B) shall be as follows:

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Concrete Type	Beam When Deck Is Fluted	Protection Material Thickness On Structural Member, In. Beam When Deck Is Blend Or All-Cellular	Joist (Item 1A When Deck Is Fluted or Blend Of Cellular	Joist Item 1B When Deck Is Fluted Or Blend Of Cellular
1	1	NW	5/8;5/8*;	1/2*;1/2;1/16**	1/2	—
1-1/2	1	NW	5/8;5/8*;	5/8;5/8;1/16**	5/8	—
2	1	NW	5/8;5/8*;	5/8;5/8;1/16**	5/8	—
3	1	NW	1-1/16	1-1/16	1-1/16	—
1	1	LW	1-3/16	2-1/8	—	3-1/4
2	1	NW	1-3/16	2-1/8	—	3-1/4
2	1	LW	1-3/16	2-1/8	—	3-1/4
3	1	NW	1-3/16	2-1/8	—	3-1/4
3	1	LW	1-3/16	2-1/8	—	3-1/4
1-1/2	1	NW	1-3/16	2-1/8	1-3/8	—
2	1	NW	1-3/16	2-1/8	1-3/8	—
2	1	LW	1-3/16	2-1/8	1-3/8	—
3	1	LW	1-3/16	2-1/8	2-1/4	—
1-1/2	1	LW	1-7/16	2-1/8	2-1/4	—
2	1	LW	1-7/16	2-1/8	2-1/4	—

**This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. lightweight concrete topping.
*May be reduced to 3/4 in. for the 1-1/2 hr Unrestrained Beam Rating when the material is sprayed 2 in. beyond the beam's top flange and no reduction in thickness is made at the tips of the bottom flange.
+Thickness of Spray-Applied Fire Resistive Materials may be reduced to one half of this thickness on the lower flange tips of the steel beam.
   CIL Group Ltd.—Type D-C/F or Type II, Type EBS or Type X adhesive which may also be used as a surface sealer.
   Isolatek International—Type D-C/F, HF, Type II, Type EBS or Type X adhesive which may also be used as a surface sealer.

6B. **Spray-Applied Fire Resistive Materials***—Alternate to Item 6A. See table below for appropriate thicknesses. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Prepared by mixing with water and spray-applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Thickness On Beam In When Deck Is All-Fluted	When Deck Is Blend Or All-Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16
2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

*This thickness applies when optional Items 12 or 13 are used over 3-1/4 in. lightweight concrete topping.

6C. **Spray-Applied Fire Resistive Materials***—Alternate to Item 6A or 6B. Applied by misting with water according to instructions on each bag of material. Mixture can be spray or trowel applied in one or more coats. The thickness of the mixture is dependent on the type of flour unit. See table below for appropriate thickness. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. The steel surfaces must be clean and free of dirt, loose scale and oil. Minimum average density of 38 pcf and minimum individual density of 35 pcf. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Thickness On Beam In When Deck Is All-Fluted	When Deck Is Blend Or All-Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16
2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

*This thickness applies when optional Items 12, 13 are used over 3-1/4 in. lightweight concrete topping.
   CIL Group Ltd.—Type 280.
   Isolatek International—Type 280.

6D. **Spray-Applied Fire Resistive Materials***—Alternate to Item 6A or 6B. Applied by misting with water according to instructions on each bag of material. Mixture can be spray or trowel applied in one or more coats. The thickness of the mixture is dependent on the type of flour unit. See table below for appropriate thickness. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. The steel surfaces must be clean and free of dirt, loose scale and oil. Minimum average density of 28 pcf and minimum individual density of 25 pcf. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Thickness On Beam In When Deck Is All-Fluted	When Deck Is Blend Or All-Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16
2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

*This thickness applies when optional Items 12, 13 are used over 3-1/4 in. lightweight concrete topping.
   CIL Group Ltd.—Type D-C/F or Type II, Type EBS or Type X adhesive which may also be used as a surface sealer.
   Isolatek International—Type D-C/F, HF, Type II, Type EBS or Type X adhesive which may also be used as a surface sealer.

6E. **Spray-Applied Fire Resistive Materials***—Alternate to Item 6A. See table below for appropriate thicknesses. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Prepared by mixing with water and spray-applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Thickness On Beam In When Deck Is All-Fluted	When Deck Is Blend Or All-Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16
2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

*This thickness applies when optional Items 12, 13 are used over 3-1/4 in. lightweight concrete topping.
   CIL Group Ltd.—Type E-85 or Type X adhesive which may also be used as a surface sealer.
   Isolatek International—Type E-85 or Type X adhesive which may also be used as a surface sealer.

6F. **Spray-Applied Fire Resistive Materials***—Alternate to Item 6A. See table below for appropriate thicknesses. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Prepared by mixing with water and spray-applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Min average density of 15 pcf with min individual value of 14.5 pcf. For method of density determination, see Design Information Section, Sprayed Material.

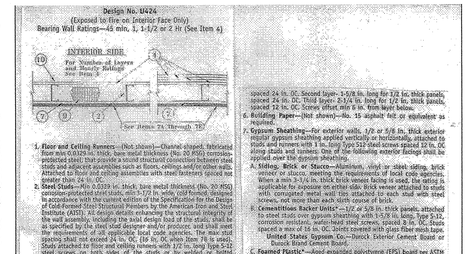
Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Protection Thickness On Beam In When Deck Is All-Fluted	When Deck Is Blend Or All-Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16
2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

*This thickness applies when optional Items 12, 13 are used over 3-1/4 in. lightweight concrete topping.
   CIL Group Ltd.—Type F-90 or Type X adhesive which may also be used as a surface sealer.
   Isolatek International—Type F-90 or Type X adhesive which may also be used as a surface sealer.

Design No. U424

(Exposed to Fire on Interior Face Only)

Bearing Wall Ratings—4d min, 1 1/2 in 2 hr (See Item 4)

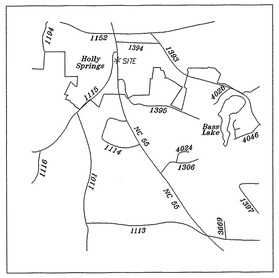


1. **Floor and Ceiling Runners**—(Not shown)—Channel shaped, fabricated from min 0.0179 in. thick MSG galv steel, web depth to accommodate protected steel; that provide a sound structural connection between steel studs and adjacent assemblies such as floors, ceilings and/or other walls. When attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC.
2. **Steel Studs**—Min 0.0359 in. thick (20 MSG) galv steel studs, (No. 25 MSG) corrosion-protected steel studs; min 1-3/8 in. wide, cold-formed; designed in accordance with the requirements of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute (AISI). All designs details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing varies with Gypsum Board Type, OC, of item 3 in. wide. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with the AISI specifications.
3. **Lateral Support**—Horizontal members—Where required for lateral support of studs, support shall be provided by means of steel straps, channels or other similar members as specified in the design of a particular steel stud wall system.
4. **Wallboard, Gypsum***—Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs. Horizontal joints supported by runner channels on opposite sides of assembly. Vertical joints of base layer not required to be located over studs. Horizontal edge joints and horizontal joint locations on opposite sides of studs staggered a min of 12 in. Horizontal edge joints and horizontal joint locations on adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers required for design load for the 4S mm, 1 hr 3-1/2-hr and 2 hr ratings are as follows:

Wallboard Protection on Interior Side of Wall

Rating	No. Of Layers And Thickness Of Panels	Percent Of Design Load
60 Min	1 layer, 5/8 in. thick	100
1 hr	2 layers, 1/2 in. thick	100
1-1/2 hr	2 layers, 5/8 in. thick	100
2 hr	3 layers, 1/2 in. thick	100
3 hr	4 layers, 5/8 in. thick	100

   Canadian Gypsum Co.—1/2 in. thick Type SCX, SHX, WRX, AR, C; WRC, or IP-X2; 5/8 in. thick Type SCX, SHX, WRX, IP-X2, C, WRC; 1/2 or 5/8 in. thick ULTRAC



VICINITY MAP
No Scale

LEGEND:

———	Lines Surveyed	TP	Telephone Pole
———	Lines Not Surveyed	MH	Manhole
———	Right of Way Lines	Trans.	Electric Transformer
EIP/EIS	Existing Iron Pipe or Stake	WM	Water Meter
ECM	Existing Concrete Monument	WV	Water Valve
EPK	Existing P.K. Nail	R/W	Right-of-Way
PKS	P.K. Nail Set	C/L	Centerline
ISS	Iron Stake Set	P.C.	Plat Cabinet
CSS	Cotton Spindle Set	D.B.	Deed Book
RRS	Railroad Spike	M.B.	Map Book
ELS	Existing Lightwood Stake	B.M.	Book of Maps
PP	Power Pole	PIN	Parcel Identifier Number
LP	Light Pole	Ac.	Acres
OHE	Overhead Electric Lines	Sq. Ft.	square feet
CP	Computed Point		

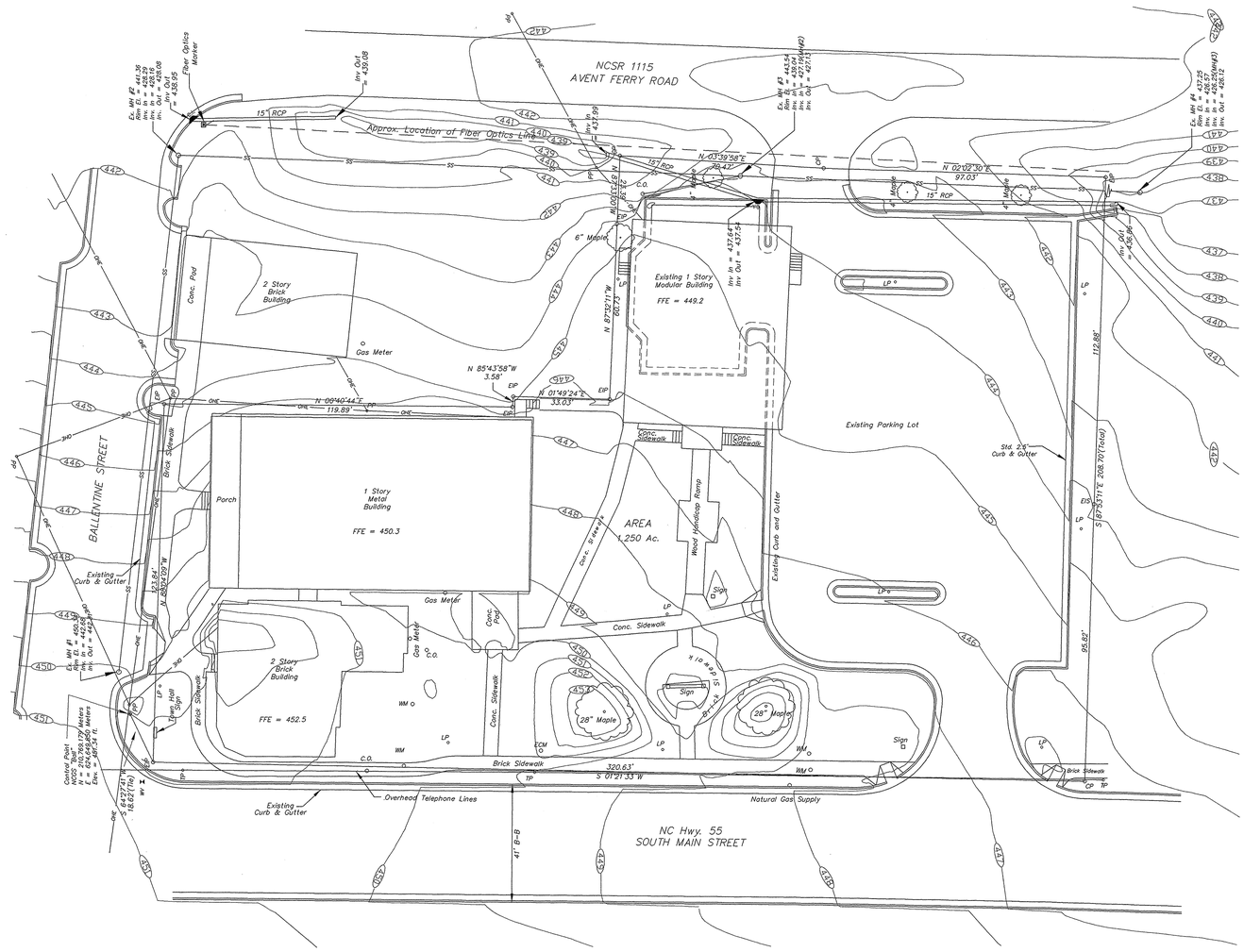
NAD 27 North American Datum of 1927
NAD 83 North American Datum of 1983
N.C.G.S. North Carolina Geodetic Survey

NOTES:
* Iron Stakes set at all property corners unless noted otherwise.
* Areas determined by coordinate method.
* All distances/dimensions are Horizontal ground distances unless otherwise indicated.

North Carolina
Harnett County

I, Thomas Lester Stancil, certify that this plat was drawn under my supervision from (an actual survey made under my supervision) (deed description recorded in Book ___, Page ___, etc.) (other), that the ratio of precision as calculated by latitudes and departures is 1: 10,000+, that the boundaries not surveyed are shown as broken lines plotted from information found as shown hereon, that this plat was prepared in accordance with the standards of practice as amended. Witness my original signature, registration number and seal this the 2 nd day of November, A.D. 2001.

Surveyor
L-1512
Registration Number



As-Built Survey For

Town of Holly Springs

Holly Springs Township
Scale: 1" = 20'

Wake County, NC
Date: 11-02-01

0 20 40
GRAPHIC SCALE

PREPARED BY
STANCIL & ASSOCIATES
PROFESSIONAL LAND SURVEYOR, P.A.
98 Depot Street, P.O. Box 730, Angier, N.C. 27501
(919) 639-2133 (919) 639-2602 (FAX)

REFERENCE:
BOOK OF MAPS 1995, PAGE 330
BOOK OF MAPS 1997, PAGE 12

Project No. LWHS-1470

CONSTRUCTION DOCUMENTS

Little & Associates Architects

4309 Emperor Boulevard
Suite 220
Durham, NC 27703
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GEOSCIENCE GROUP, INC.
557-D Pylon Drive
Raleigh, NC 27606
919-856-1550
919-856-1555(fax)

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Existing Site Survey

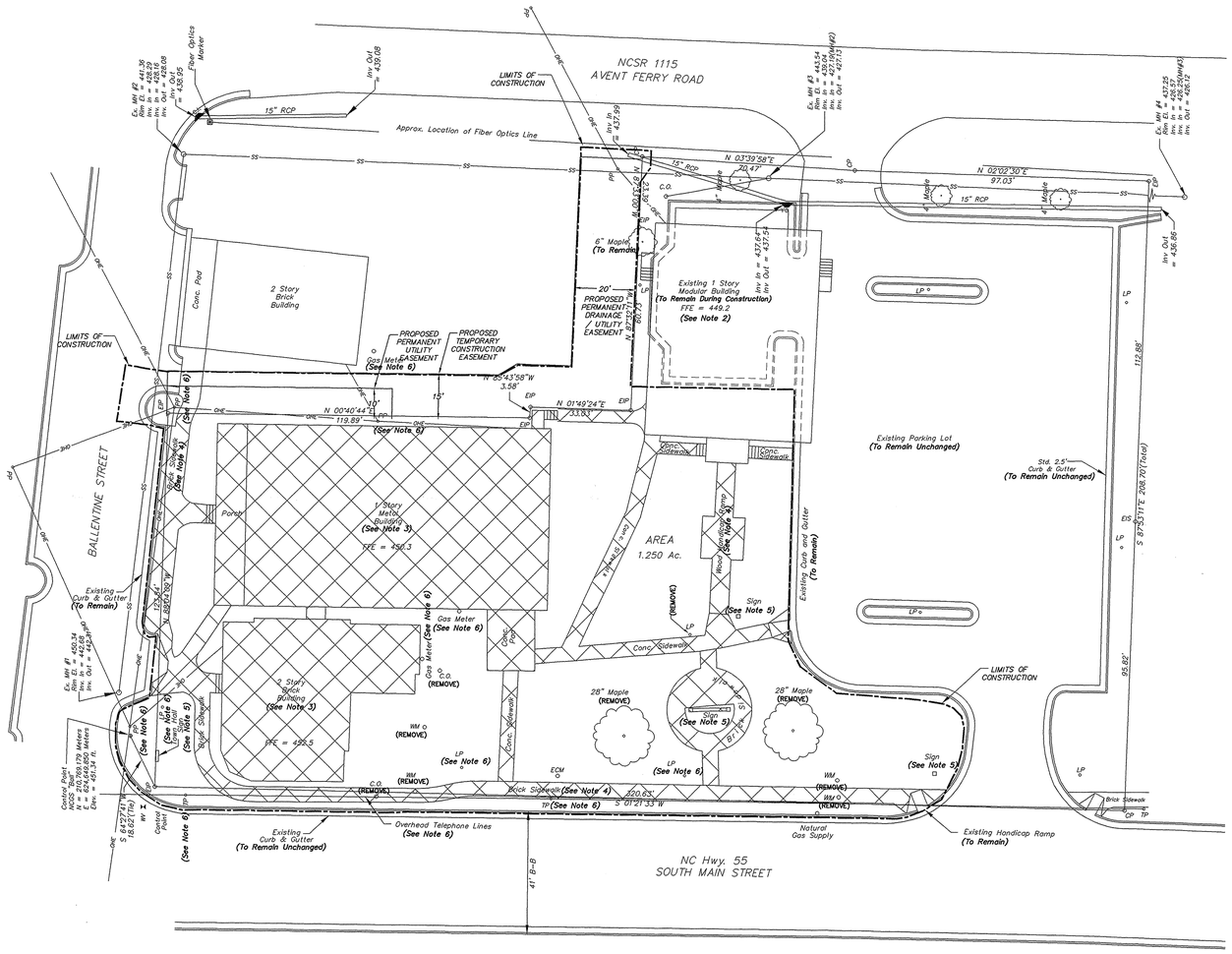
Division President	Robert Bishop, AIA
Job Captain	Brian N. Simpson,CDT,CSI
Drawn By	Richard A. French
Date Drawn	April 30, 2002
Drawing File Name	

Revisions
No ____ Date ____
No ____ Date ____
No ____ Date ____
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No ____ Date ____
No ____ Date ____

Issue Date: April 30, 2002

Project Number
511576000

Sheet
C101



NOTES

1. SITE DEMOLITION INCLUDES THE REMOVAL, OR COORDINATION OF THE REMOVAL, OF ANY ITEM WITHIN THE CONSTRUCTION LIMITS WHEN THE SITE IS TURNED OVER TO THE CONTRACTOR UNLESS OTHERWISE NOTED.

2. THE EXISTING MODULAR BUILDING SHALL REMAIN ON THE SITE DURING THE ENTIRE CONSTRUCTION PROCESS. THE OWNER SHALL BE PROVIDED ACCESS TO THE SITE AND THE MODULAR BUILDING AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.

3. EXISTING 1 STORY METAL BUILDING AND THE EXISTING 2 STORY BUILDING WILL BE REMOVED BY THE OWNER BEFORE CONSTRUCTION BEGINS AND THEIR REMOVAL ARE NOT PART OF THIS PROJECT, HOWEVER THE BUILDING SLABS AND FOUNDATIONS WILL BE IN PLACE WHEN CONSTRUCTION BEGINS AND THEIR REMOVAL IS PART OF THIS PROJECT.

4. THE BRICK SIDEWALK AND WOOD RAMP SHALL BE REMOVED BY THE OWNER. REMOVAL SHALL BE COORDINATED BY THE CONTRACTOR.

5. ALL SITE SIGNS SHALL BE REMOVED AND STORED BY THE CONTRACTOR FOR FUTURE USE BY THE OWNER.

6. CONTRACTOR SHALL COORDINATE THE REMOVAL OF UTILITIES FROM THE SITE BY THEIR RESPECTIVE OWNERS. (CP&L, PUBLIC SERVICE, TIME WARNER, SPRINT, ETC.)

7. EXISTING LANDSCAPING SHALL BE REMOVED BY THE OWNER. REMOVAL SHALL BE COORDINATED BY THE CONTRACTOR.

8. THE EXISTING PARKING LOT, N.C. HWY 55, AND BALLENTINE STREET ARE TO REMAIN UNCHANGED. DAMAGE TO THE PAVEMENT OR CURB AND GUTTER OF THESE AREAS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SCOPE OF DEMOLITION AND MUST COORDINATE WITH ALL REGULATORY AGENCIES AND UTILITY COMPANIES.

10. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND PROPER LEGAL DISPOSAL OF ALL DEBRIS FROM THE SITE. NO ON-SITE BURIAL PITS SHALL BE ALLOWED.

LEGEND

MAJOR ITEMS TO BE REMOVED

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557-D Pyton Drive
Raleigh, NC 27606
919-856-1550
919-856-1555(fax)

NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
Site Demolition Plan

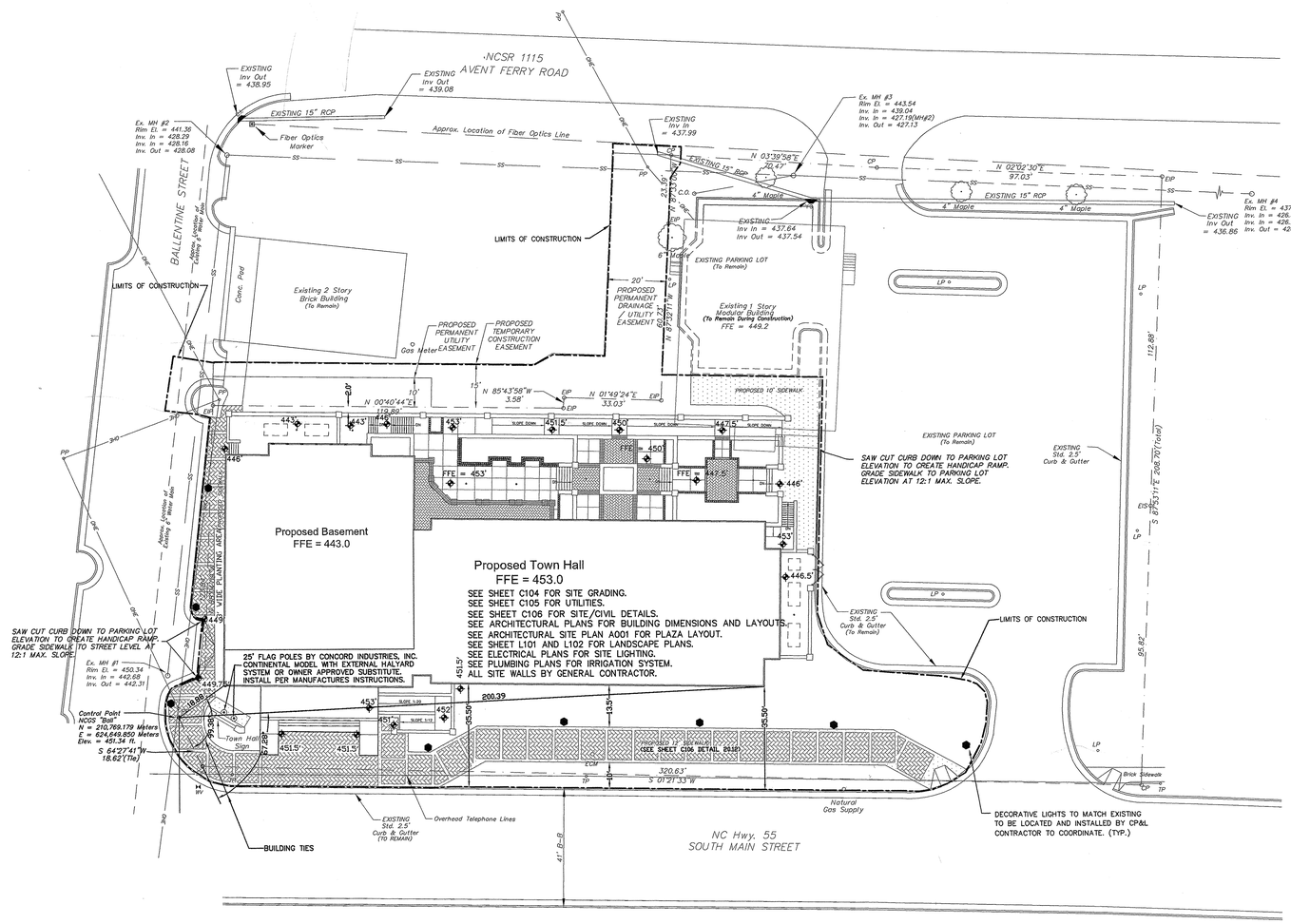
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
April 30, 2002
Drawing File Name

Revisions
No ..... Date .....
No ..... Date .....
No ..... Date .....
No ..... Date .....
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No ..... Date .....
Issue Date: April 30, 2002

Project Number
511576000

Sheet
C102

CONSTRUCTION DOCUMENTS



CONTRACTOR TO COORDINATE ELECTRICAL SERVICE SIZE AND LOCATION WITH ELECTRIC UTILITY COMPANY.

NOTE: CONTRACTOR TO REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL UTILITY CONNECTIONS TO BUILDING(S).

CONTRACTOR TO COORDINATE WITH THE TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT THE CONNECTIONS OF PROPOSED WATER & SANITARY SEWER LINES. CONTRACTOR TO LOCATE & VERIFY EXISTING WATER MAIN & SANITARY SEWER LATERALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN PROPOSED DESIGN PRIOR TO CONSTRUCTION.

APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, CONTRACTOR SHALL HAVE WRITTEN PERMISSION FROM OWNER(S) OF ADJACENT PROPERTIES BEFORE PROCEEDING.

GENERAL NOTES:

1. WORK ON THIS PROJECT SHALL CONFORM TO THESE PLANS, DETAILS AND SPECIFICATIONS, THE LATEST EDITIONS OF NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE TOWN OF HOLLY SPRINGS AND WAKE COUNTY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION.

3. THE UTILITIES AND THE LOCATION THEREOF, SHOWN ON THE DRAWINGS, REPRESENT THE DESIGNERS UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER, TELEPHONE, GAS ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION. UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTACT U-LOCO (1-800-632-4949) PRIOR TO DIGGING.

4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT THE CONTRACTOR'S EXPENSE, ALL EXISTING UTILITIES, STREETS, SIDEWALKS, CURB AND GUTTER, OR ANY OTHER EXISTING SITE FEATURE DAMAGED DURING CONSTRUCTION.

5. ALL TRAFFIC CONTROL SIGNAGE AND STRIPING TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND AS FURTHER DIRECTED BY TOWN, COUNTY AND STATE INSPECTORS. ANY STREET BLOCKING OR CLOSING SHALL BE APPROVED BY AND COORDINATED WITH THE TOWN ENGINEER.

6. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.

7. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS, AND WIRE UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADES.

8. SEE ARCHITECTURAL PLANS FOR DETAILED BUILDING AND PLAZA DIMENSIONS.

9. ALL PAVING CUTS SHALL BE MADE BY SAW CUTS. EXISTING ELEVATIONS SHALL BE FIELD VERIFIED AND MATCHED.

10. ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

11. CONTRACTOR TO PROVIDE ALL EROSION CONTROL DEVICES MEASURES AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

12. ALL HANDICAP RAMPS, PARKING SPACES ETC., SHALL MEET A.D.A. CODES.

13. TOP SOIL TO BE STRIPPED AND STOCKPILED IN AREA DESIGNATED BY ARCHITECT / ENGINEER.

14. ANY UNSUITABLE MATERIAL ON SITE IS TO BE QUALIFIED BY A GEOTECHNICAL ENGINEER, PRIOR TO REMOVING. CONTRACTOR MUST NOTIFY OWNER, OR OWNER'S REPRESENTATIVE IN CASE UNSUITABLE MATERIAL IS UNCOVERED.

15. THE OWNER IS TO BE PROVIDED ACCESS TO THE SITE AND THE EXISTING MODULAR BUILDING DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.

16. SINCE THE OWNER WILL OCCUPY THE MODULAR BUILDING UNTIL THE NEW TOWN HALL BUILDING HAS BEEN ISSUED A CERTIFICATE OF OCCUPANCY, THE CONTRACTOR WILL HAVE TO PHASE THE PLAZA CONSTRUCTION IN THE AREA OF THE MODULAR BUILDING TO ALLOW FOR THE COMPLETION OF THE NEW TOWN HALL BUILDING SO THE OWNER CAN RELOCATE. ONCE THE OWNER HAS RELOCATED, THE MODULAR BUILDING CAN BE MOVED AND THE PLAZA AREA COMPLETED.

SITE SUMMARY

OWNER: TOWN OF HOLLY SPRINGS
128 S. Main Street
Holly Springs, NC 27540
TAX MAP 1995 PAGE 330
TAX MAP 1997 PAGE 12
ZONED: TC-MU (VBD)
TOTAL SITE AREA = 1.250 AC. (54,450.0 SF)

BUILDING INFORMATION:

TWO -STORY BUILDING W/PARTIAL BASEMENT
BASEMENT = 4,100 SF
FIRST FLOOR = 12,075 SF
SECOND FLOOR = 12,075 SF
TOTAL AREA = 28,250 SF

BUILDING SITE COVERAGE = 12,075 SF
TERRACES, EXTENSIONS AND MECHANICAL AREAS = 6,925 SF

TOTAL SITE COVERAGE = 19,000SF

LOT COVERAGE = 0.349 %
FLOOR AREA RATIO = 0.52

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Raleigh, NC 27606
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NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER JAMES A. SIMPSON

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Site Layout Plan

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: Richard A. French
Date Drawn: April 30, 2002
Drawing File Name:

Revisions
No ..... Date .....
No ..... Date .....
No ..... Date .....
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No ..... Date .....
No ..... Date .....
Issue Date: April 30, 2002

Project Number: 511576000

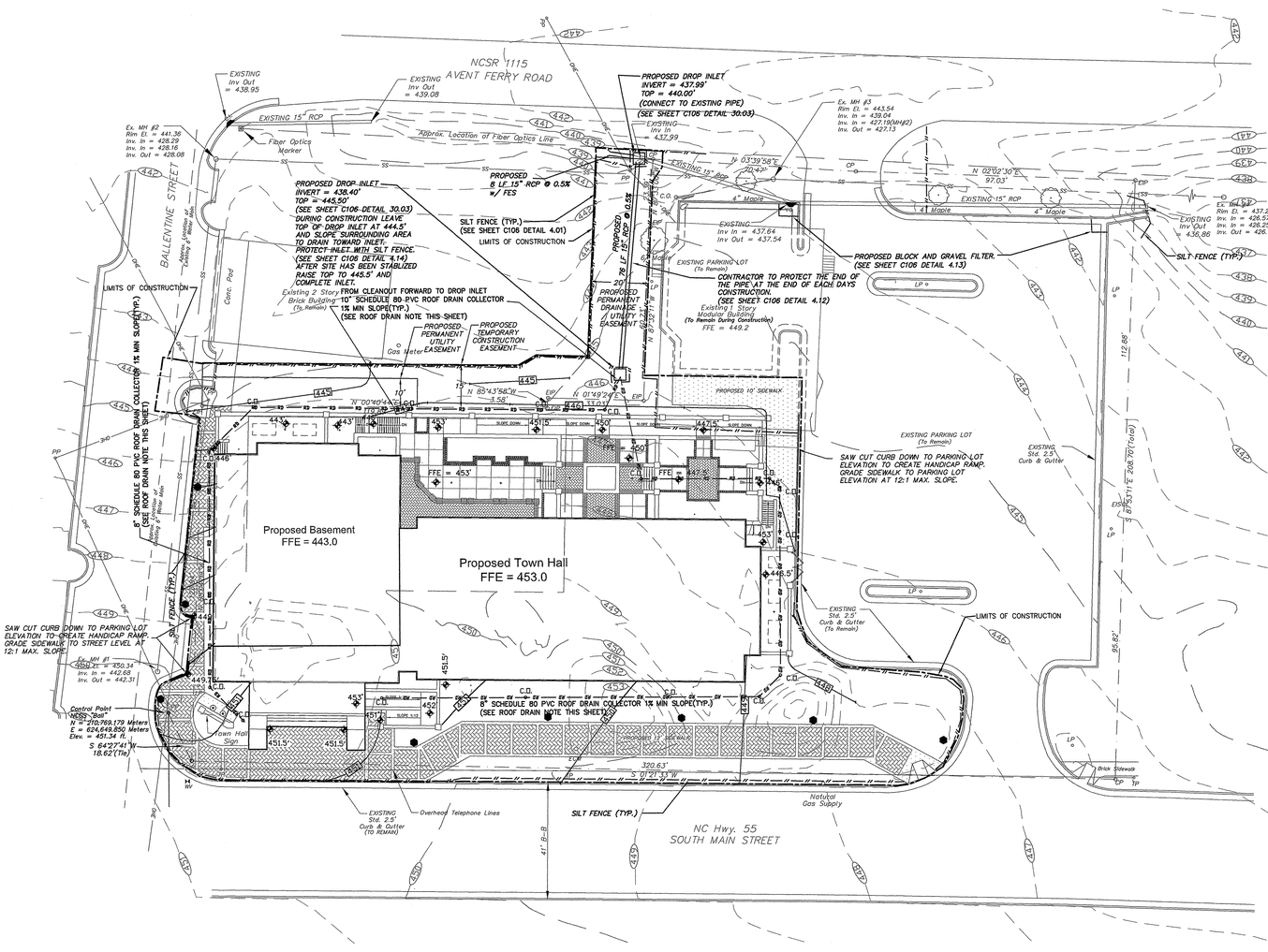
Sheet: C103

CONSTRUCTION DOCUMENTS

SEE SHEET C105 FOR UTILITIES.
SEE SHEET C106 FOR SITE/CIVIL DETAILS.
SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND LAYOUTS.
SEE ARCHITECTURAL SITE PLAN A001 FOR PLAZA LAYOUT.
SEE SHEET L101 AND L102 FOR LANDSCAPE PLANS.
SEE ELECTRICAL PLANS FOR SITE LIGHTING.
SEE PLUMBING PLANS FOR IRRIGATION SYSTEM.
ALL SITE WALLS BY GENERAL CONTRACTOR.

UTILITIES NOTE:

THE UTILITIES AND THE LOCATIONS THEREOF, SHOWN ON THE DRAWINGS, REPRESENT THE DESIGNERS UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER TELEPHONE, GAS, ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTACT U-LOCO (1-800-632-4949) PRIOR TO DIGGING.



CONTRACTOR TO COORDINATE ELECTRICAL SERVICE SIZE AND LOCATION WITH ELECTRIC UTILITY COMPANY.

NOTE: CONTRACTOR TO REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL UTILITY CONNECTIONS TO BUILDING(S).

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APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, CONTRACTOR SHALL HAVE WRITTEN PERMISSION FROM OWNER(S) OF ADJACENT PROPERTIES BEFORE PROCEEDING.

ROOF DRAIN NOTE:

CONTRACTOR TO TIE ROOF, PLAZA AND OTHER DRAINS INTO COLLECTOR SYSTEM. EXTEND OR ADJUST THE LOCATION OF THE ROOF DRAIN COLLECTOR AS NECESSARY TO TIE IN ALL DRAINS. SEE ARCHITECTURAL PLANS FOR ROOF, PLAZA AND OTHER DRAIN LOCATIONS.
ROOF DRAIN COLLECTOR SHALL HAVE CLEANOUTS EVERY 50' AND AT BENDS.
DRAIN SYSTEM SHALL HAVE 12" MIN. COVER
CLEANOUTS IN SIDEWALKS OR OTHER HARD SURFACE AREAS SHALL BE TRAFFIC BEARING TYPE WITH THREADED BRASS PLUGS FLUSH WITH THE SURFACE.
CONTRACTOR TO COORDINATE THE ROOF DRAIN COLLECTOR SYSTEM WITH THE FOUNDATION AND PLAZA AREA CONSTRUCTION.

EROSION CONTROL SEQUENCE:

1. SET UP PRE-CONSTRUCTION CONFERENCE ON SITE WITH EROSION CONTROL INSPECTOR.
2. INSTALL TREE PROTECTION/SILT FENCES & OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
3. INSTALL INLET PROTECTION AT ALL STORM STRUCTURES.
4. MAINTAIN EROSION CONTROL DEVICES AS NEEDED.
5. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE. ADJUST INLET PROTECTION AT ALL STORM STRUCTURES.
6. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NCDENR, THE TOWN OF HOLLY SPRINGS AND WAKE COUNTY.
7. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION.
8. WHEN ALL PROPOSED GRADES ARE ESTABLISHED, SEED AND MULCH ALL DISTURBED AREAS.

0 10 20 30 40
GRAPHIC SCALE

GENERAL NOTES:

1. WORK ON THIS PROJECT SHALL CONFORM TO THESE PLANS, DETAILS AND SPECIFICATIONS, THE LATEST EDITIONS OF NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE TOWN OF HOLLY SPRINGS AND WAKE COUNTY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN.
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5. ALL TRAFFIC CONTROL SIGNAGE AND STRIPING TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND AS FURTHER DIRECTED BY TOWN, COUNTY AND STATE INSPECTORS. ANY STREET BLOCKING OR CLOSING SHALL BE APPROVED BY AND COORDINATED WITH THE TOWN ENGINEER.
6. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
7. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS, AND WIRE UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADES.
8. SEE ARCHITECTURAL PLANS FOR DETAILED BUILDING AND PLAZA DIMENSIONS.
9. ALL PAVING CUTS SHALL BE MADE BY SAW CUTS. EXISTING ELEVATIONS SHALL BE FIELD VERIFIED AND MATCHED.
10. ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.
11. CONTRACTOR TO PROVIDE ALL EROSION CONTROL DEVICES MEASURES AS REQUIRED BY STATE AND LOCAL AUTHORITIES.
12. ALL HANDICAP RAMPS, PARKING SPACES ETC., SHALL MEET A.D.A. CODES.
13. TOP SOIL TO BE STRIPPED AND STOCKPILED IN AREA DESIGNATED BY ARCHITECT / ENGINEER.
14. ANY UNSUITABLE MATERIAL ON SITE IS TO BE QUALIFIED BY A GEOTECHNICAL ENGINEER, PRIOR TO REMOVING. CONTRACTOR MUST NOTIFY OWNER, OR OWNER'S REPRESENTATIVE IN CASE UNSUITABLE MATERIAL IS UNCOVERED.
15. THE OWNER IS TO BE PROVIDED ACCESS TO THE SITE AND THE EXISTING MODULAR BUILDING DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.
16. SINCE THE OWNER WILL OCCUPY THE MODULAR BUILDING UNTIL THE NEW TOWN HALL BUILDING HAS BEEN ISSUED A CERTIFICATE OF OCCUPANCY, THE CONTRACTOR WILL HAVE TO PHASE THE PLAZA CONSTRUCTION IN THE AREA OF THE MODULAR BUILDING TO ALLOW FOR THE COMPLETION OF THE NEW TOWN HALL BUILDING SO THE OWNER CAN RELOCATE. ONCE THE OWNER HAS RELOCATED, THE MODULAR BUILDING CAN BE MOVED AND THE PLAZA AREA COMPLETED.

GRADING AND EROSION CONTROL NOTES

APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, CONTRACTOR SHALL HAVE WRITTEN PERMISSION FROM OWNER(S) OF ADJACENT PROPERTIES BEFORE PROCEEDING.

1. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY, AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED, AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS.
3. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER, THE TOWN OF HOLLY SPRINGS, WAKE COUNTY AND NCDENR) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
4. THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL PER THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
5. GRADING CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES FOR ANY REQUIRED UTILITY ADJUSTMENTS AND/OR RELOCATIONS.
6. ALL MATERIALS USED FOR BACK FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS, OR ANY OTHER NON-COMPATIBLE SOIL TYPE MATERIAL. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.
7. REFERENCE STRUCTURAL DRAWINGS AND SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD AND PAVING SUB GRADE INFORMATION.

TEMPORARY SEEDING SCHEDULE - FALL

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding dates
Mountains - Aug. 15-Dec. 15
Coastal Plain and Piedmont - Aug. 15-Dec. 30

Soil amendments
Follow soil tests or apply 2,000 lb/acre ground agricultural lime-stone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

TEMPORARY SEEDING SCHEDULE - SUMMER

Seeding mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates
Mountains - May 15-Aug. 15
Piedmont - May 1-Aug. 15
Coastal Plain - Apr. 15-Aug. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting or a mulch anchoring tool. A disk with blades set nearly straight can be used as an anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, fertilize and mulch immediately following erosion or other damage.

PERMANENT SEEDING SCHEDULE - MIXTURE #2M

Seeding Mixture

Species	Rate (lb/acre)
Tall fescue	40
Crown vetch	10
Korean lespedeza	10
Redtop	5

Seeding note
If occasional mowing is desired, substitute 20 lb/acre sericea lespedeza

Nurse plants
Between May 1 and Aug. 15 add 10 lb/acre German millet or 15 lb/acre Sudangrass. Prior to May 1 or after Aug. 15, add 40 lb/acre rye (grain).

Seeding dates

	Best	Possible
Below 2500 ft:	Aug. 15-Sept. 1 Mar. 1-Apr. 1	July 25-Sept. 15 Mar. 1-May 10
Above 2500 ft:	July 25-Aug. 15 Mar. 20-Apr. 20	July 15-Aug. 30 Mar. 5-May 15

Complete seeding earlier in the fall, and start later in spring on north and east facing slopes.

Soil amendments
Follow recommendations of soil tests, or apply 4,000 lb/acre ground agricultural limestone and 1,000 lb/acre 5-10-10 fertilizer.

Mulch
Apply 4,000-5,000 lb/acre grain straw or equivalent cover of another suitable mulching material. Anchor mulch by tacking with asphalt, roving or netting. Netting is the preferred anchoring method on steep slopes.

Maintenance
Do not mow crown vetch. Refertilize in the second year unless growth is fully adequate. Reseed, fertilize and mulch damaged areas immediately.

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NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER JAMES R. COMPTON

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Grading, Drainage and Erosion Control Plan

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: Richard A. French
Date Drawn: April 30, 2002
Drawing File Name:

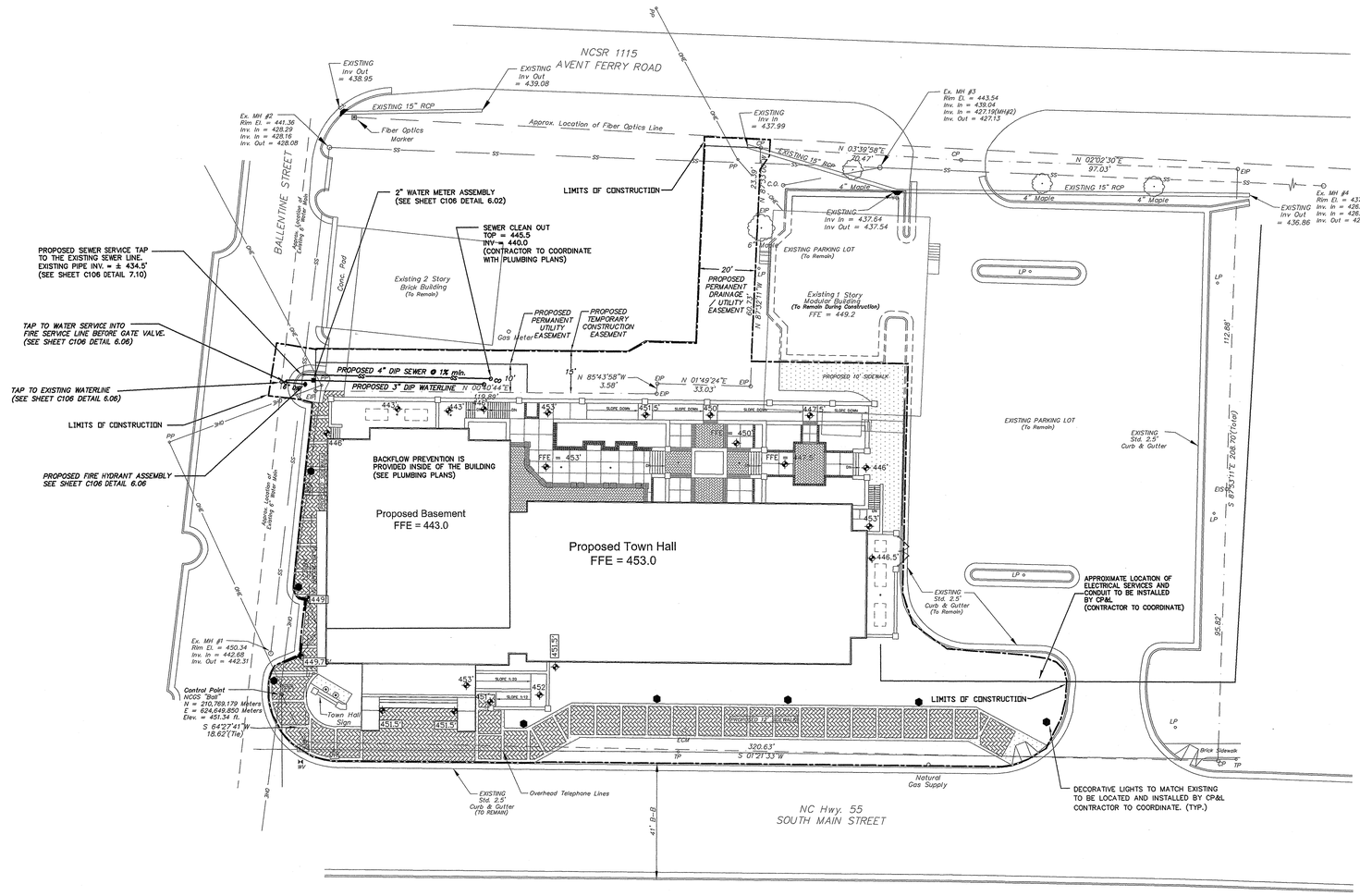
Revisions
No ..... Date .....

Issue Date: April 30, 2002

Project Number: 511576000

Sheet: C104

CONSTRUCTION DOCUMENTS



CONTRACTOR TO COORDINATE ELECTRICAL SERVICE SIZE AND LOCATION WITH ELECTRIC UTILITY COMPANY.

NOTE: CONTRACTOR TO REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF ALL UTILITY CONNECTIONS TO BUILDING(S).

CONTRACTOR TO COORDINATE WITH THE TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT THE CONNECTIONS OF PROPOSED WATER & SANITARY SEWER LINES. CONTRACTOR TO LOCATE & VERIFY EXISTING WATER MAIN & SANITARY SEWER LATERALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN PROPOSED DESIGN PRIOR TO CONSTRUCTION.

APPROVAL OF THIS PLAN IS NOT AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, CONTRACTOR SHALL HAVE WRITTEN PERMISSION FROM OWNER(S) OF ADJACENT PROPERTIES BEFORE PROCEEDING.

GENERAL NOTES:

1. WORK ON THIS PROJECT SHALL CONFORM TO THESE PLANS, DETAILS AND SPECIFICATIONS, THE LATEST EDITIONS OF NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE TOWN OF HOLLY SPRINGS AND WAKE COUNTY DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN.

2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION.

3. THE UTILITIES AND THE LOCATION THEREOF, SHOWN ON THE DRAWINGS, REPRESENT THE DESIGNERS UNDERSTANDING OF EXISTING UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, DEPTH AND EXISTENCE OF ALL UTILITIES (ELECTRICAL, MECHANICAL, WATER, SEWER, TELEPHONE, GAS ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO ANY EXCAVATION. THE OMISSION OF OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION. UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTACT U-LOCO (1-800-632-4949) PRIOR TO DIGGING.

4. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING, AT THE CONTRACTOR'S EXPENSE, ALL EXISTING UTILITIES, STREETS, SIDEWALKS, CURB AND GUTTER, OR ANY OTHER EXISTING SITE FEATURE DAMAGED DURING CONSTRUCTION.

5. ALL TRAFFIC CONTROL SIGNAGE AND STRIPING TO CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.), AND AS FURTHER DIRECTED BY TOWN, COUNTY AND STATE INSPECTORS. ANY STREET BLOCKING OR CLOSING SHALL BE APPROVED BY AND COORDINATED WITH THE TOWN ENGINEER.

6. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.

7. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS, AND WIRE UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED GRADES.

8. SEE ARCHITECTURAL PLANS FOR DETAILED BUILDING AND PLAZA DIMENSIONS.

9. ALL PAVING CUTS SHALL BE MADE BY SAW CUTS. EXISTING ELEVATIONS SHALL BE FIELD VERIFIED AND MATCHED.

10. ALL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

11. CONTRACTOR TO PROVIDE ALL EROSION CONTROL DEVICES MEASURES AS REQUIRED BY STATE AND LOCAL AUTHORITIES.

12. ALL HANDICAP RAMPS, PARKING SPACES ETC., SHALL MEET A.D.A. CODES.

13. TOP SOIL TO BE STRIPPED AND STOCKPILED IN AREA DESIGNATED BY ARCHITECT / ENGINEER.

14. ANY UNSUITABLE MATERIAL ON SITE IS TO BE QUALIFIED BY A GEOTECHNICAL ENGINEER, PRIOR TO REMOVING. CONTRACTOR MUST NOTIFY OWNER, OR OWNER'S REPRESENTATIVE IN CASE UNSUITABLE MATERIAL IS UNCOVERED.

15. THE OWNER IS TO BE PROVIDED ACCESS TO THE SITE AND THE EXISTING MODULAR BUILDING DURING ALL PHASES OF DEMOLITION AND CONSTRUCTION.

16. SINCE THE OWNER WILL OCCUPY THE MODULAR BUILDING UNTIL THE NEW TOWN HALL BUILDING HAS BEEN ISSUED A CERTIFICATE OF OCCUPANCY, THE CONTRACTOR WILL HAVE TO PHASE THE PLAZA CONSTRUCTION IN THE AREA OF THE MODULAR BUILDING TO ALLOW FOR THE COMPLETION OF THE NEW TOWN HALL BUILDING SO THE OWNER CAN RELOCATE. ONCE THE OWNER HAS RELOCATED, THE MODULAR BUILDING CAN BE MOVED AND THE PLAZA AREA COMPLETED.

UTILITY NOTES

1. THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES TO VERIFY LOCATIONS, DEPTHS, AND ELEVATIONS PRIOR TO STARTING ANY CONSTRUCTION ACTIVITIES. ANY DIFFERENCES SHALL BE REPORTED TO THE OWNER, ENGINEER, AND ARCHITECT.

2. CONSTRUCTION OF ALL WATER AND SEWER LINES SHALL BE IN ACCORDANCE WITH THE TOWN OF HOLLY SPRINGS STANDARDS AND SPECIFICATIONS, THE N.C. BUILDING CODE, N.C. FIRE CODE, AND THE N.C. PLUMBING CODE, LATEST EDITIONS.

3. SEE PLUMBING PLANS FOR CONTINUATION OF DOMESTIC SERVICE. DOMESTIC WATER SERVICE TO BUILDING SHALL BE A 3 INCH MAIN WITH A 2 INCH METER INSTALLED AS SHOWN ON THE PLANS. SEE PLUMBING PLAN FOR MAKE AND MODEL NUMBER OF BACKFLOW PREVENTOR TO BE LOCATED IN MECHANICAL ROOM.

4. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY TO COORDINATE ANY RELOCATIONS AND ADJUSTMENTS THAT MAY BE REQUIRED FOR THE CONSTRUCTION OF THE PROJECT.

5. SEE ARCHITECTURAL AND MECHANICAL PLANS FOR INTERNAL DISTRIBUTION OF UTILITIES.

6. THE DESIGN AND INSTALLATION OF ELECTRIC SERVICE, NATURAL GAS, AND COMMUNICATIONS CABLE SHALL BE BY RESPECTIVE UTILITY COMPANIES AND COORDINATION OF SUCH SHALL BE BY CONTRACTOR.

7. ALL SEWER CLEAN-OUTS SHALL BE TRAFFIC BEARING WITH TRAFFIC BEARING LIDS.

8. VERTICAL SEPARATIONS BETWEEN STORM DRAIN LINES AND WATER LINES SHALL BE AT LEAST 12". VERTICAL SEPARATIONS BETWEEN STORM DRAIN LINES AND SANITARY SEWER LINES SHALL BE AT LEAST 12". VERTICAL SEPARATIONS BETWEEN SANITARY SEWER LINES AND WATER LINES SHALL BE AT LEAST 18". HORIZONTAL SEPARATIONS BETWEEN SANITARY SEWER LINES AND WATER LINES SHALL BE AT LEAST 10 FEET.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 17255 JAMES R. CONNELLY

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Utility Plan

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: Richard A. French
Date Drawn: April 30, 2002
Drawing File Name:

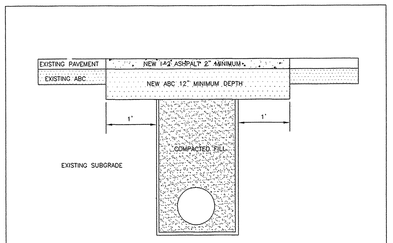
Revisions
No ____ Date ____

Issue Date: April 30, 2002

Project Number: 511576000

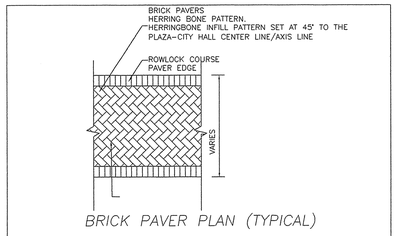
C105

CONSTRUCTION DOCUMENTS

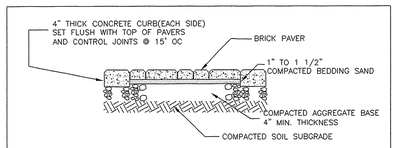


NOTES:
1. THE PAVEMENT SHALL BE DEFINED BY A STRAIGHT EDGE, PREFERABLY A MACHINED SAW CUT.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY THE ENGINEER.
4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 2" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY TO ACHIEVE A SMOOTH LEVEL PATCH.

ASPHALT PAVEMENT PATCH | 20.41

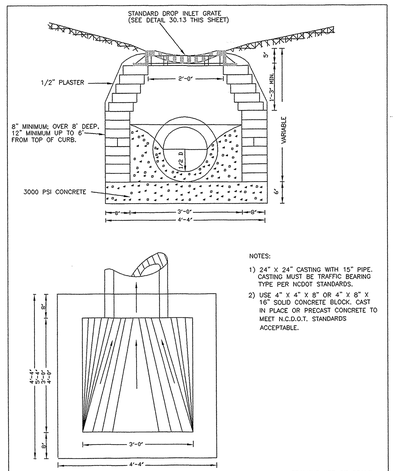


BRICK PAVERS ON PLAZA | 20.13



NOTES:
1. SCATTER SAND OR SCREENINGS OVER COMPLETED WORK AND SWEEP INTO CRACKS.
2. BRICK PAVERS SHOULD CONFORM TO REQUIREMENTS OF ASTM C902.

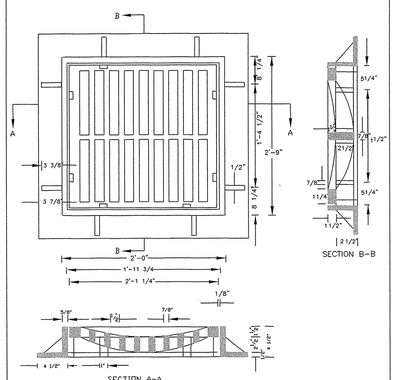
BRICK PAVER SIDEWALK | 20.12



NOTES:
1) 24" X 24" CASTING WITH 15" PIPE. CASTING MUST BE TRAFFIC BEARING TYPE PER NCDOT STANDARDS.
2) USE 4" X 4" X 8" OR 4" X 8" X 16" SOLID CONCRETE BLOCK. CAST IN PLACE OR PRECAST CONCRETE TO MEET N.C.D.O.T. STANDARDS ACCEPTABLE.

- DRAWING NOT TO SCALE -

STANDARD DROP INLET | 30.03

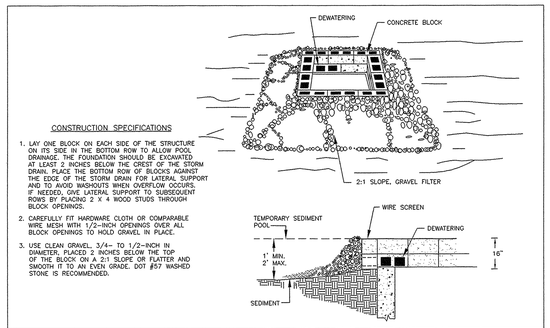


STANDARD 24" X 24" DROP INLET CASTING

CASTING MUST BE TRAFFIC BEARING TYPE PER NCDOT STANDARDS

- DRAWING NOT TO SCALE -

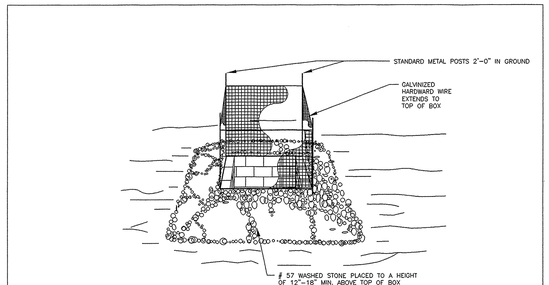
STANDARD DROP INLET GRATE | 30.13



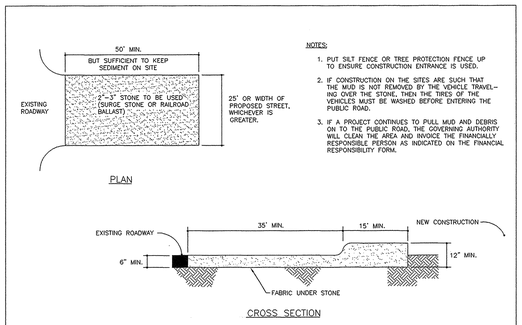
CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4- TO 1/2-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.

BLOCK AND GRAVEL DROP INLET PROTECTION | STD. No. 4.13

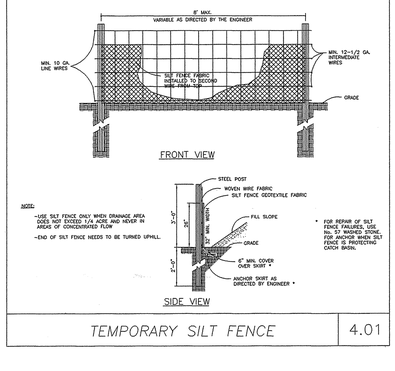


STANDARD CATCH BASIN/YARD INLET PROTECTION | STD. No. 4.14



NOTES:
1. PUT SILT FENCE OR TREE PROTECTION FENCE UP TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF CONSTRUCTION ON THE SITES ARE SUCH THAT THE MUD IS NOT REMOVED BY THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLES MUST BE WASHED BEFORE ENTERING THE PUBLIC ROAD.
3. IF A PROJECT CONTINUES TO PULL MUD AND DEBRIS ON TO THE PUBLIC ROAD, THE GOVERNING AUTHORITY WILL CLEAN THE AREA AND INVOICE THE FINANCIALLY RESPONSIBLE PERSON AS INDICATED ON THE FINANCIAL RESPONSIBILITY FORM.

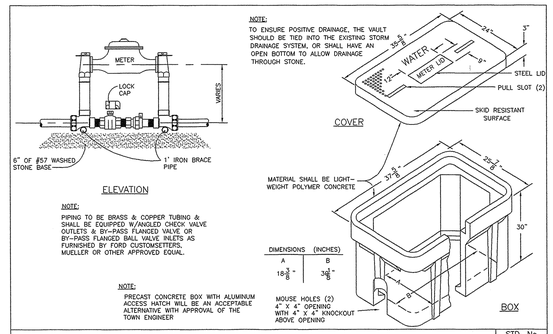
GRAVEL CONSTRUCTION ENTRANCE | 4.07



NOTE:
-USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW
-END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

* FOR REPAIR OF SILT FENCE FAILURES, SEE DETAIL 4.02. SPACING FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

TEMPORARY SILT FENCE | 4.01

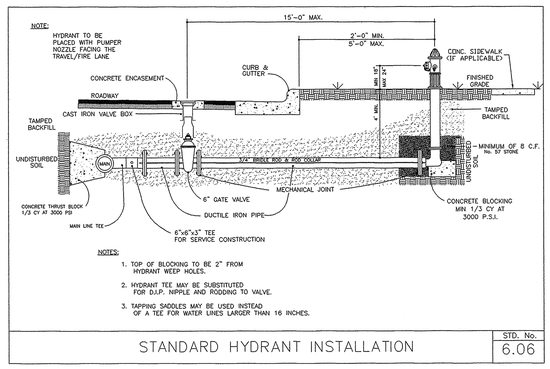


NOTE:
PIPING TO BE BRASS & COPPER TUBING & SHALL BE EQUIPPED W/ANGLED CHECK VALVE OUTLETS & BY-PASS FLANGED VALVE OR BY-PASS FLANGED BALL VALVE INLETS AS FURNISHED BY FORD CUSTOMSETTERS, MUELLER OR OTHER APPROVED EQUAL.

NOTE:
PRECAST CONCRETE BOX WITH ALUMINUM ACCESS HATCH WILL BE AN ACCEPTABLE ALTERNATIVE WITH APPROVAL OF THE TOWN ENGINEER

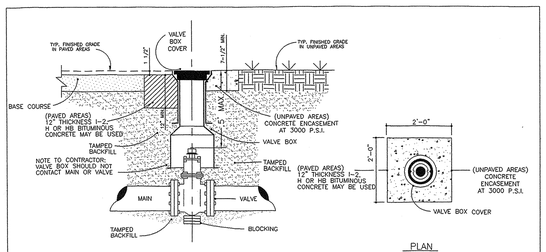
NOTE:
TO ENSURE POSITIVE DRAINAGE, THE VAULT SHOULD BE TIED INTO THE EXISTING STORM DRAINAGE SYSTEM, OR SHALL HAVE AN OPEN BOTTOM TO ALLOW DRAINAGE THROUGH STONE.

STANDARD 2" METER INSTALLATION AND VAULT | STD. No. 6.02



NOTES:
1. TOP OF BLOCKING TO BE 2" FROM HYDRANT WEEP HOLES.
2. HYDRANT TEE MAY BE SUBSTITUTED FOR D.J.P. NIPPLE AND RODDING TO VALVE.
3. TAPPING SADDLES MAY BE USED INSTEAD OF A TEE FOR WATER LINES LARGER THAN 16 INCHES.

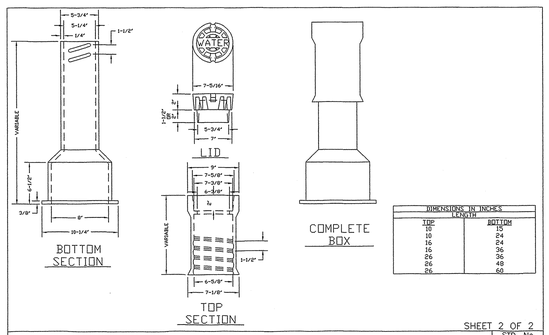
STANDARD HYDRANT INSTALLATION | STD. No. 6.06



NOTE:
1. D.I.P. MAY BE USED FOR VALVE BOX EXTENSIONS.
2. VALVE OPERATING NUT MUST BE EXTENDED SO THAT THE DEPTH IS NO GREATER THAN 5' FROM THE SURFACE USING A MANUFACTURER APPROVED EXTENSION KIT.
3. PRECAST CONCRETE ENCASEMENT IS ALLOWED OUTSIDE OF PAVED AREAS.

SHEET 1 OF 2

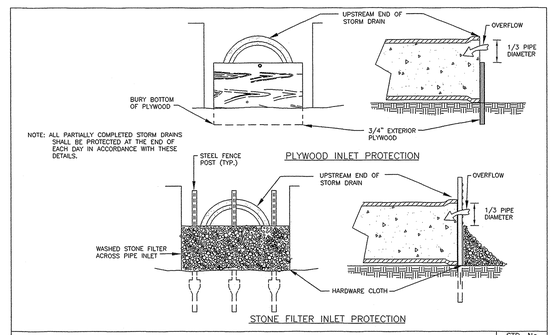
STANDARD VALVE BOX INSTALLATION | STD. No. 6.08



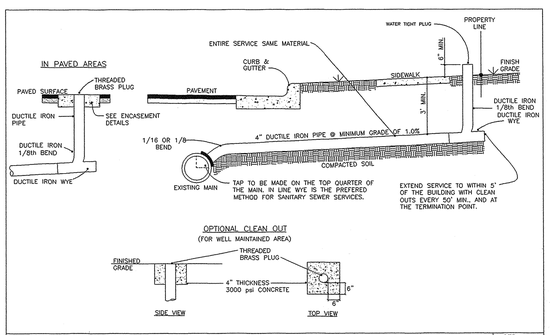
DIMENSIONS IN INCHES LENGTH	
TOP	BOTTOM
10	15
10	24
16	24
16	36
26	36
26	48
26	60

SHEET 2 OF 2

STANDARD VALVE BOX INSTALLATION | STD. No. 6.08



PIPE INLET PROTECTION (PLYWOOD AND STONE) | STD. No. 4.12



STANDARD SANITARY SEWER TAP AND SERVICE | STD. No. 7.10

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GEOSCIENCE GROUP, INC.

NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER JAMES A. CONNELLY

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: SITE/CIVIL DETAIL SHEET

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: Richard A. French
Date Drawn: April 30, 2002
Drawing File Name:

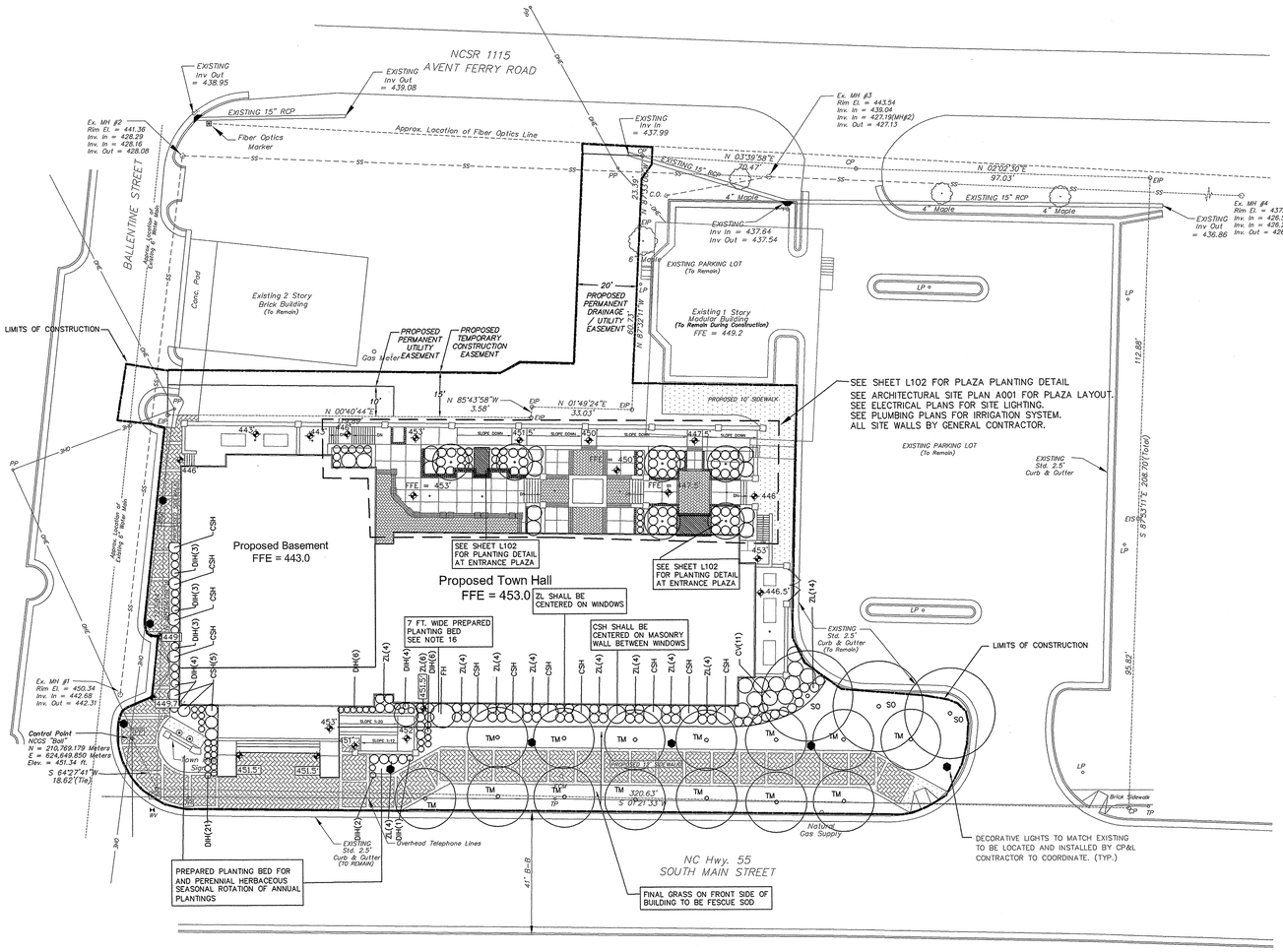
Revisions
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No ... Date ...
No ... Date ...
No ... Date ...
No ... Date ...
No ... Date ...
No ... Date ...
No ... Date ...
No ... Date ...

Issue Date: April 30, 2002

Project Number: 511576000

Sheet: C106

CONSTRUCTION DOCUMENTS



1 LANDSCAPE PLAN

PLANTING NOTES:

1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET FORTH IN THE AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC., WASHINGTON, D.C.
2. ALL PLANTS SHALL BE COMPACT, UNIFORM, AND WELL GROWN. PLANTS SHALL NOT BE LOOSE, OPEN PLANTS. THE CLIENT'S LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY AND ALL MATERIALS WHICH DO NOT MEET THESE REQUIREMENTS.
3. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" THICK COMPOSTED/MILLED PINE BARK.
4. ALL PLANTS SHALL BE FREE FROM DISEASE, INSECT INFESTATIONS, AND INJURIES.
5. ALL PLANT BEDS SHALL HAVE A 4" V-CUT TRENCH INSTALLED AT THE PERIMETER OF THE BED.
6. CONTRACTOR MUST PROVIDE A ONE YEAR WRITTEN GUARANTEE FOR ALL PLANT MATERIALS FROM THE DATE OF FINAL ACCEPTANCE BY THE LANDSCAPE ARCHITECT.
7. THE SPECIES, VARIETIES, AND SIZE LISTED SHALL BE PROVIDED AS SPECIFIED. SUBSTITUTIONS WILL BE PERMITTED ONLY UPON WRITTEN APPLICATION BY THE CONTRACTOR TO THE LANDSCAPE ARCHITECT, AND WHEN APPROVAL OF LANDSCAPE ARCHITECT IS IN WRITING.
8. SYMBOLS: B&B = BALLED AND BURLAPPED; O.C. = ON CENTER; GAL. = GALLON CONTAINER, M.S. = MULTI-STEM; HT. = HEIGHT, CAL. = CALIPER.
9. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PLANTS ILLUSTRATED ON THE PLANTING PLAN. IF ANY DISCREPANCIES EXIST BETWEEN THE QUANTITIES LISTED ON THE PLANT LIST AND THE QUANTITIES SHOWN ON THE PLAN, THE CONTRACTOR SHALL PROVIDE ALL QUANTITIES ILLUSTRATED ON THE PLAN. IF ANY PLANTS ARE SHOWN NOT LABELED, THE CONTRACTOR SHALL VERIFY THE PLANT IDENTITY WITH THE LANDSCAPE ARCHITECT AND THESE PLANTINGS SHALL BE INCLUDED IN THE CONTRACTOR'S INITIAL BID.
10. SOIL AMENDMENTS SHALL BE UNIFORMLY SPREAD AND CULTIVATED THOROUGHLY BY A MECHANICAL TILLER INTO THE TOP 8" OF SOIL THROUGHOUT SHRUB BEDS.
11. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND THE OWNER IN WRITING OF ALL SOIL CONDITIONS THE CONTRACTOR CONSIDERS DETRIMENTAL TO THE GROWTH OF PLANT MATERIALS. PROPER DRAINAGE MUST BE ASSURED.
12. FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS BEFORE PREPARING SOIL AND PLANTING TREES.
13. REMOVE COMPACTED SOIL AND ADD 24" NEW TOPSOIL/PLANTING MIX -OR- UNCOMPACT AND AMEND TOP 24" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES. (WITHIN ENTIRE MINIMUM AREA OF 200 SQ. FT. PER TREE)
14. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF BURLAP FROM ROOT BALL.
15. NO TREE SHALL BE PLANTED ON A SLOPE GREATER THAN 3:1 .
16. PROVIDE AND INSTALL PREPARED PLANTING BED FOR ALL AREAS SHOWN TO RECEIVE PLANTING. TOP 8" SHALL BE 25% WELL DIARY COMPOSTED COW MANURE AND 75% NATIVE TOPSOIL, THOROUGHLY MIXED (2" LAYER OF COMPOSTED DAIRY COW MANURE ROROTILLED TO 8" DEEP). PREPARED SOIL SHALL BE FINE TEXTURED AND FRIABLE AND RAKED TO CREATE A SMOOTH SURFACE. MULCH COMPLETED PLANTING BED W/ 3" THICK LAYER OF MILLED, COMPOSTED) PINE BARK MULCH.

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	ROOT/CONTAINER	HEIGHT/SIZE
CSH	17	ILEX x 'CAROLINA SENTINEL'	CAROLINA SENTINAL HOLLY	B & B	MIN 5 FT. FULL TO GRND
DIH	61	RAPHIOLEPSIS INDICA 'PINKIE'	'PINKIE' DWARF INDIAN HAWTHORNE	3 GAL	MIN 18" T
ZL	59	PRUNUS LAUROCERASUS 'ZABEL'	'ZABEL' LAUREL	3 GAL.	MIN 18" T
CV	11	VIBURNUM AWABUKI 'CHINDO'	'CHINDO' VIBURNUM'	7 GAL	MIN. 4 FT. T
TM	14	ACER BUERGERANUM	TRIDENT MAPLE	B & B	MIN 8 FT, FULL TO GRND
FH	2	ILEX ATTENUATA 'FOSTER'	'FOSTER' HOLLY	B & B	2" CAL. MIN.8 FT.
SO	3	QUERCUS SHUMARDII	SHUMARD OAK	B & B	2 1/2" CAL. MIN.10FT.

** QUANTITIES ARE FOR CONVENIENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR ACTUAL PLANT MATERIAL SHOWN ON PLANS.

ATTENTION CONTRACTOR / LANDSCAPER

IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO NOTIFY THE OWNER OF ANY SITE CONFLICTS THAT AFFECT TREE SPECIES OR LOCATIONS PRIOR TO PLANTING.

ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES -- PLANT 15-20' OFF SEWER & STORM DRAINAGE LINES; 10-15' OFF GAS, WATER, PHONE AND UNDERGROUND ELECTRICAL LINES

MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER, 8' TALL IF SINGLE STEM; MINIMUM 8' TALL AND 3 STEMS MAXIMUM IF MULTI-STEM. MULCH IS REQUIRED; STAKING/GUYING IS OPTIONAL.

LARGE MATURING TREES MUST BE A MINIMUM OF 25 FT. FROM OVERHEAD DISTRIBUTION POWER LINES. IF TREES CONFLICT WITH POWER LINES, NOTIFY OWNER TO RESOLVE BEFORE PLANTING.

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NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER JAMES R. COMPTON 2/14/02

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Landscape Plan

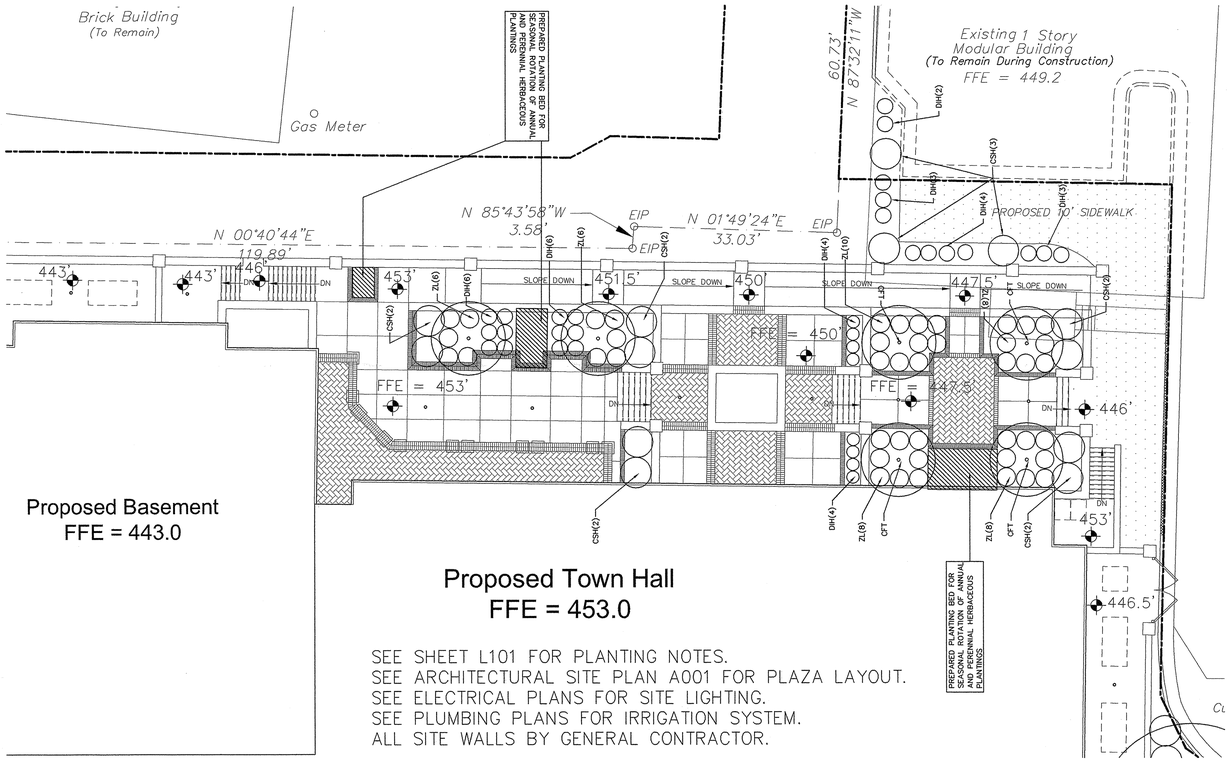
Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: Richard A. French
Date Drawn: April 30, 2002
Drawing File Name:

Revisions
No ..... Date .....
No ..... Date .....
No ..... Date .....
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No ..... Date .....
No ..... Date .....
No ..... Date .....
No ..... Date .....
No ..... Date .....
No ..... Date .....
Issue Date: April 30, 2002

Project Number: 511576000

Sheet: L101

CONSTRUCTION DOCUMENTS

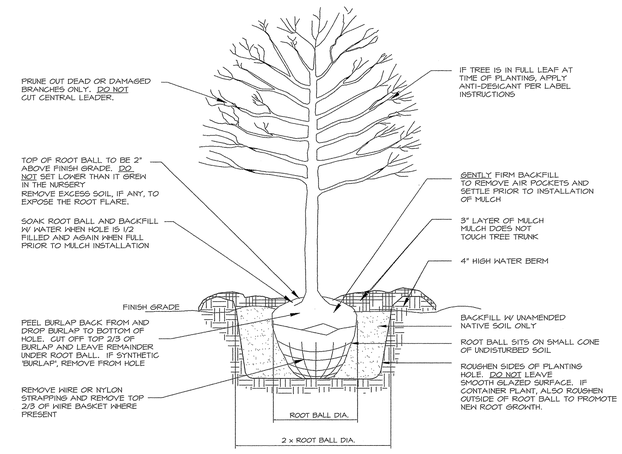


Proposed Basement
FFE = 443.0

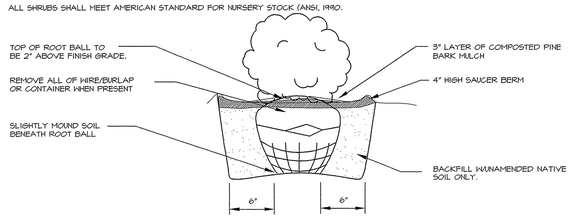
Proposed Town Hall
FFE = 453.0

SEE SHEET L101 FOR PLANTING NOTES.
SEE ARCHITECTURAL SITE PLAN A001 FOR PLAZA LAYOUT.
SEE ELECTRICAL PLANS FOR SITE LIGHTING.
SEE PLUMBING PLANS FOR IRRIGATION SYSTEM.
ALL SITE WALLS BY GENERAL CONTRACTOR.

1 PLANTING DETAIL AT ENTRANCE PLAZA
SCALE 1"=10'



2 SINGLE STEM TREE PLANTING DETAIL
NOT TO SCALE



3 SHRUB PLANTING DETAIL
NOT TO SCALE

SYM.	QTY.	BOTANICAL NAME	COMMON NAME	ROOT/CONTAINER	HEIGHT/SIZE
CSH	14	ILEX x "CAROLINA SENTINEL"	CAROLINA SENTINAL HOLLY	B & B	MIN 5 FT, FULL TO GRND
DIH	32	RAPHIOLEPSIS INDICA 'PINKIE'	'PINKIE' DWARF INDIAN HAWTHORNE	3 GAL	MIN 18" T
ZL	44	PRUNUS LAUROCERASUS 'ZABEL'	'ZABEL' LAUREL	3 GAL.	MIN 18" T
CFT	6	CHIONANTHUS RETUSUS	CHINESE FRINGE TREE	B & B	2 1/2" CAL. MIN.10 FT.

** QUANTITIES ARE FOR CONVENIENCE ONLY, CONTRACTOR IS RESPONSIBLE FOR ACTUAL PLANT MATERIAL SHOWN ON PLANS.

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NORTH CAROLINA PROFESSIONAL SEAL 17255 ENGINEER JAMES R. COMPTON

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: Landscape Details

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
Richard A. French
Date Drawn
April 30, 2002
Drawing File Name

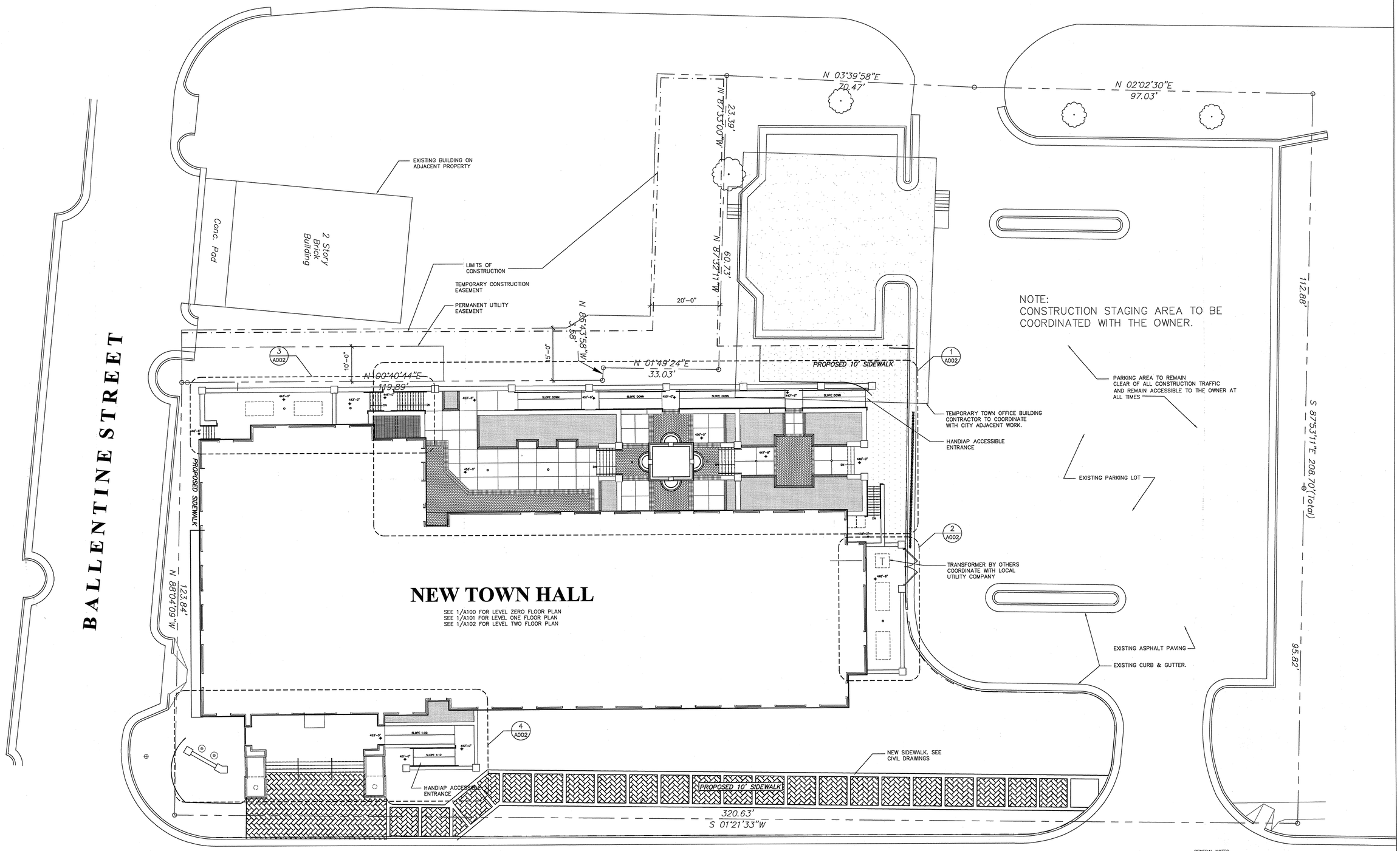
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No ..... Date .....
No ..... Date .....
Issue Date: April 30, 2002

Project Number
511576000

Sheet
L102

CONSTRUCTION DOCUMENTS

AVENT FERRY ROAD



SOUTH MAIN STREET

NOTE:
MAINTAIN CLEAR PATH OF TRAVEL AT INTERSECTION AT ALL TIMES. NOTIFY CITY'S REPRESENTATIVE IF INTERRUPTION OF TRAFFIC IS REQUIRED.

NORTH

1 A001 **ARCHITECTURAL SITE PLAN**
SCALE: 3/32" = 1'-0"

GENERAL NOTES

1. SEE CIVIL DRAWINGS FOR EXTENT OF SITE WORK.
2. SEE ARCHITECTURAL DRAWINGS FOR FLOOR PLANS, ELEVATIONS AND DETAILS.
3. ALL STREET AND SITE LIGHTING TO BE PROVIDED BY LOCAL POWER COMPANY EXCEPT WHERE NOTED OTERWISE. REFER TO CIVIL AND ELECTRICAL DRAWINGS FOR EXTENT OF WORK.
4. CONTRACTOR TO CORRDINATE WITH ALL LOCAL UTILITIES FOR INCORPORATION OF WORK BY LOCAL UTILITY COMPANIES AND BY LOCAL CITY DEPARTMENTS PRIOR TO PROCEEDING WITH ANY SUCH WORK THAT WOULD AFFECT WORK BY OTHERS NOT IN THIS CONTRACT.
5. SEE CIVIL DRAWINGS! FOR DEMOLITION OF EXISTING ITEMS ON SITE. COORDINATE REMOVAL OF EXISTING STRUCTURES WITH OWNER.
6. ALL EXTERIOR BUILDING LIGHTING TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR AS PART OF THE GENERAL CONSTRUCTION PACKAGE.
7. SEE ELECTRICAL DRAWINGS FOR SITE POWER DISTRIBUTION
8. COORDINATE SITE UTILITY CONDUITS WITH ELECTRICAL, CIVIL, AND PLUMBING DRAWINGS.
9. CONTRACTOR TO COORDINATE INSTALLATION OF TELECOMMUNICATIONS HANDHOLES AND CONDUITS WITH COMMUNICATIONS CONTRACTOR.

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

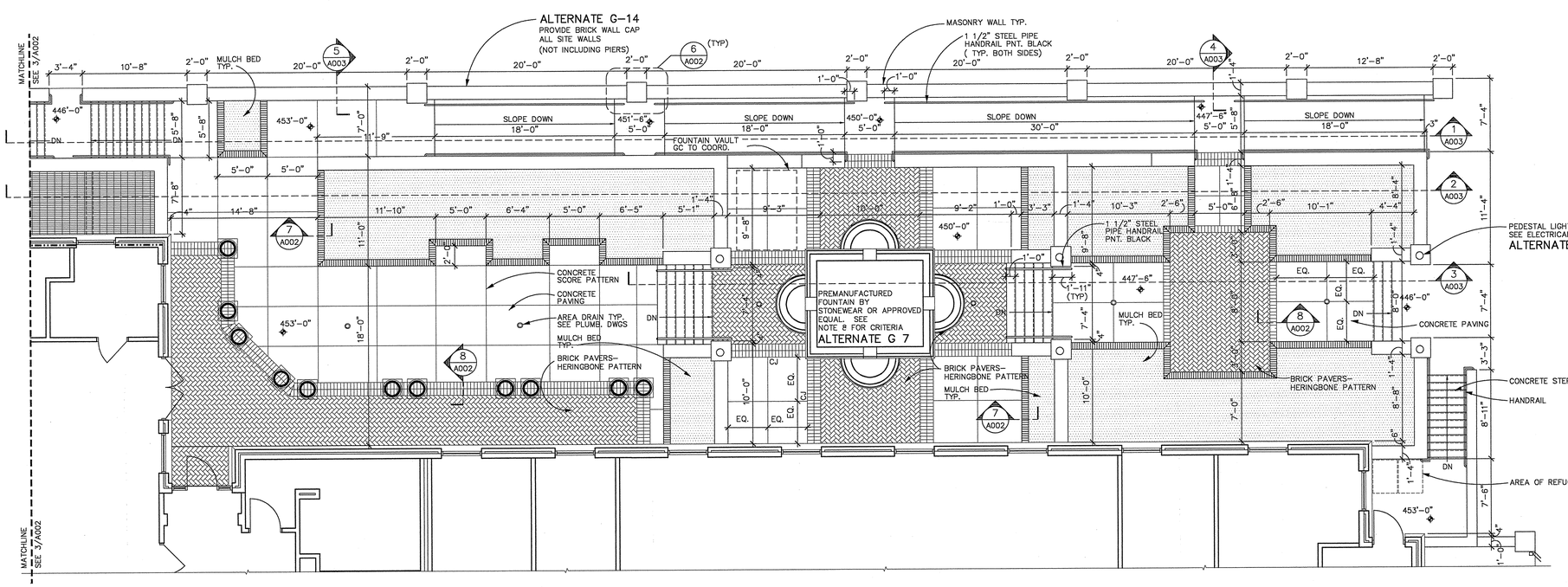
Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: ARCHITECTURAL SITE PLAN

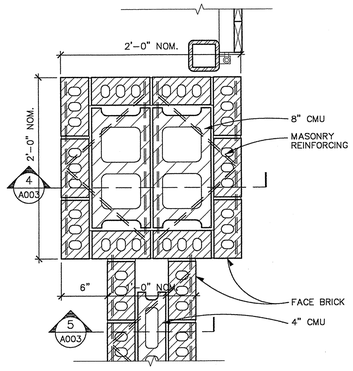
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet A001 Of

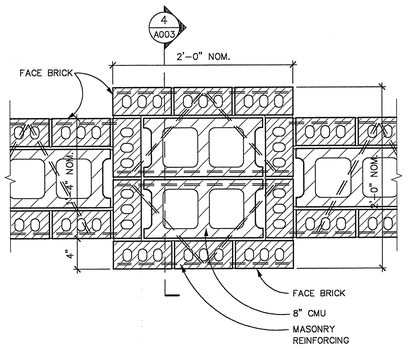
CONSTRUCTION DOCUMENTS



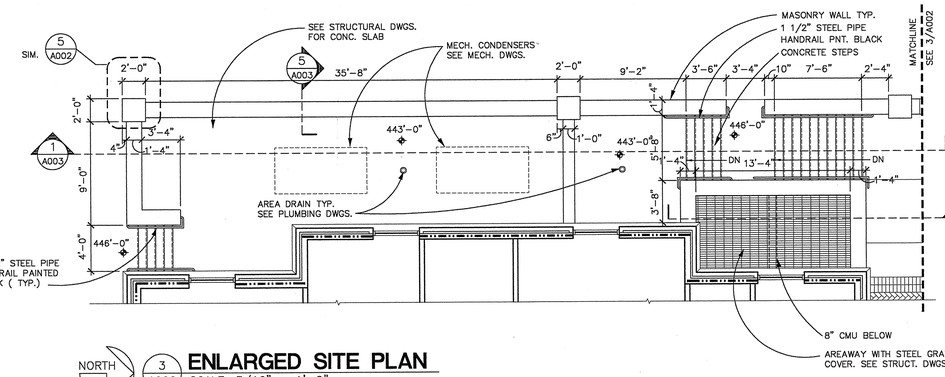
NORTH 1 A002 **ENLARGED PLAZA PLAN**
SCALE: 3/16" = 1'-0"



5 A002 **PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"



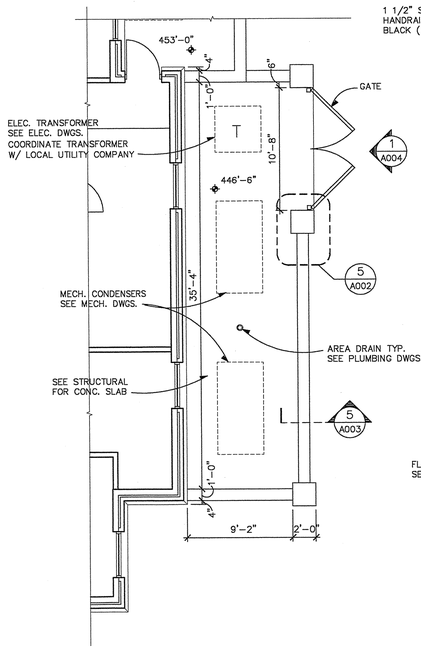
6 A002 **PLAN DETAIL**
SCALE: 1 1/2" = 1'-0"



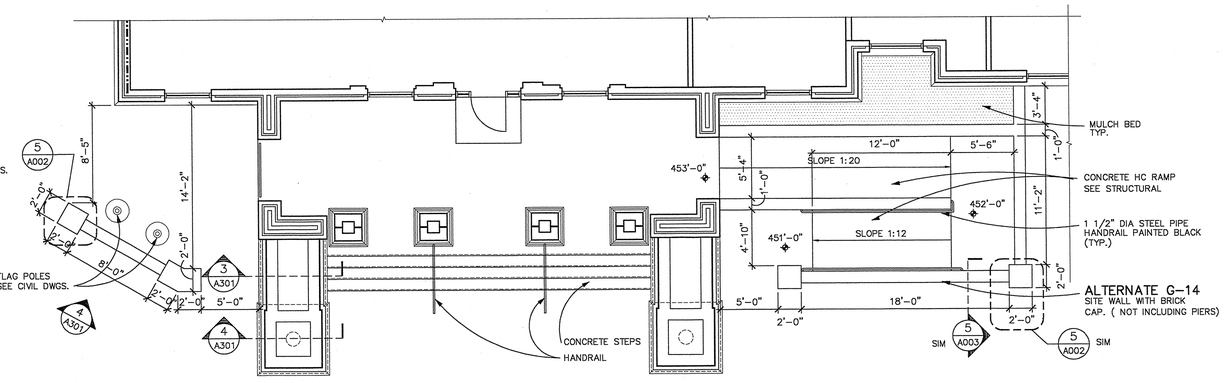
NORTH 3 A002 **ENLARGED SITE PLAN**
SCALE: 3/16" = 1'-0"

GENERAL NOTES:

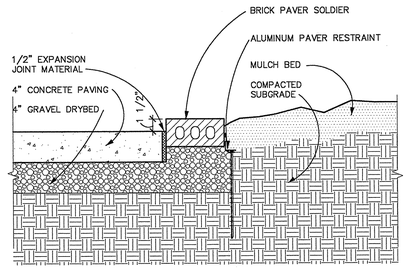
1. SITE CONTRACTOR IS RESPONSIBLE FOR CONNECTION OF ALL UTILITIES 5'-0" OUTSIDE OF BUILDING LINE OR THRU THE PLAZA AREA UNLESS OTHERWISE NOTED.
2. REFER TO ELECTRICAL DRAWINGS FOR ALL PLAZA ELECTRICAL CONNECTIONS.
3. REFER TO PLUMBING DRAWINGS FOR ALL PLAZA PLUMBING CONNECTIONS.
4. REFER TO CIVIL DRAWINGS FOR OTHER SITE RELATED ISSUES.
5. REFER TO PLUMBING DRAWINGS FOR IRRIGATION SYSTEM CONTROL SYSTEM. (DESIGN BUILD) ALLOWANCE -1. SEE SPECIFICATIONS.
6. REFER TO STRUCTURAL DRAWINGS FOR ALL SITE WALL FOOTINGS, REINFORCING, AND CONCRETE SLAB INFORMATION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL BUILDING AND SITE WALL LAYOUT.
8. PRMANUFACTURED FOUNTAIN BY STONEWEAR , INC. 2900 LOCKHEED WAY WAY CARSON CITY, NV 89706 (775) 883-8300
   FOUNTAIN CRITERIA:
   BASIN: 12' CANTERBURY QUATRAFOIL (CB12Q)
   CENTER FEATURE: 36" FLUTED BOWL (FA-36)
   PUMP/ SERVICE: SUBMERSIBLE
   LIGHTS/ SERVICE: 11- 12v/20W
   JETS: 1-1" BLOSSOM JET
   CONTROLS: ELECTRICAL: TIMERS FOR PUMP/LIGHTS GFI PROTECTED.
   WATER FLOW: INDIVIDUAL CONTROL VALVES EACH FEATURE.
   MAIN DRAIN: OVERFLOW DRAIN. MANUAL FILL. AUTO WATER LEVEL CONTROL. CHLORINATOR. WIRE READY FOR ELECTRICAL INSTALLATION BY ELECTRICAL CONTRACTOR.
   SPLASH RATIO: 1.66
   PLACEMENT AND CONNECTION OF FOUNTAIN BY GENERAL CONTRACTOR.



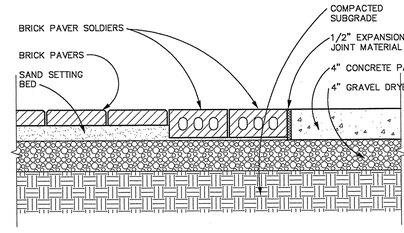
NORTH 2 A002 **ENLARGED SITE PLAN**
SCALE: 3/16" = 1'-0"



NORTH 4 A002 **ENLARGED SITE PLAN**
SCALE: 3/16" = 1'-0"



7 A002 **PAVER DETAIL**
SCALE: 1 1/2" = 1'-0"



8 A002 **PAVER DETAIL**
SCALE: 1 1/2" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: ENLARGED SITE PLANS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

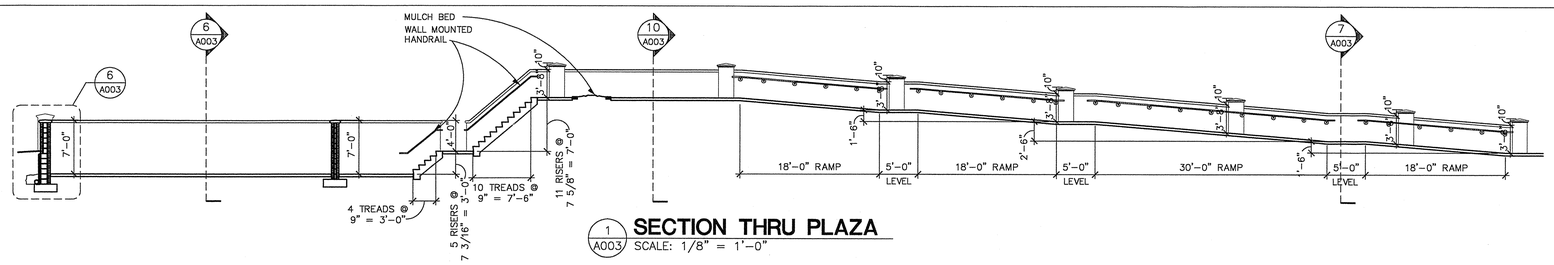
Revisions
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Issue Date: April 30, 2002

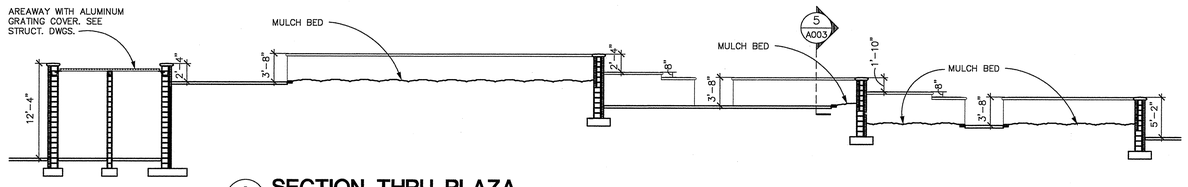
Project Number: 511576000

Sheet: A002 Of

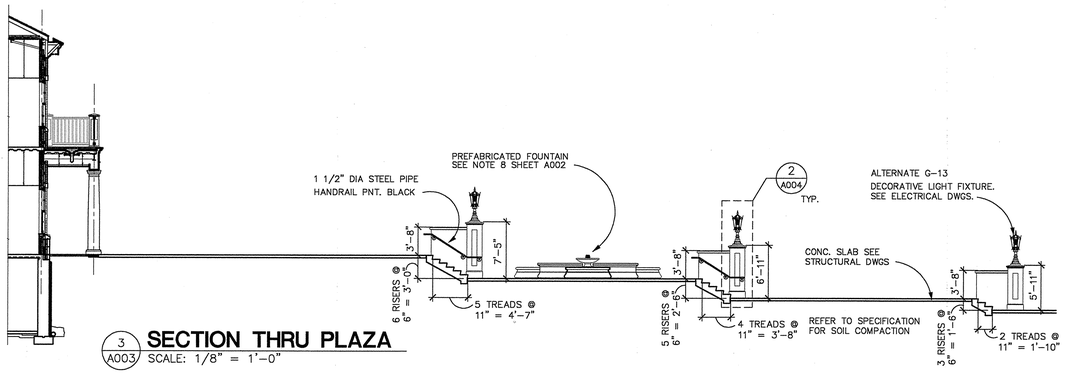
CONSTRUCTION DOCUMENTS



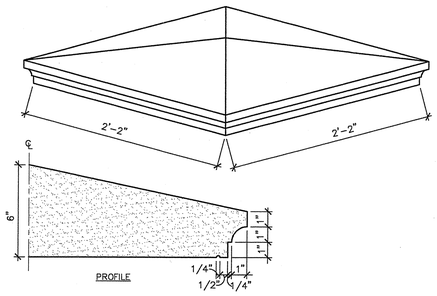
1 A003 **SECTION THRU PLAZA**
SCALE: 1/8" = 1'-0"



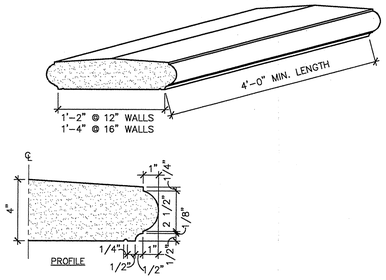
2 A003 **SECTION THRU PLAZA**
SCALE: 1/8" = 1'-0"



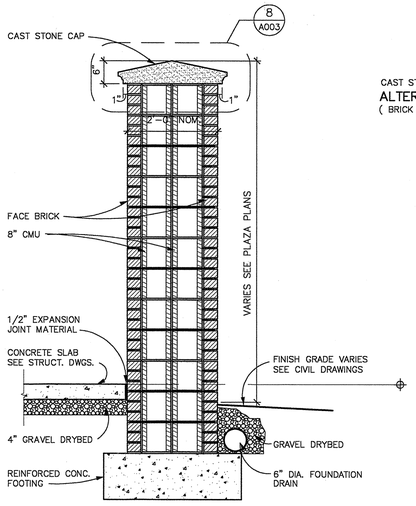
3 A003 **SECTION THRU PLAZA**
SCALE: 1/8" = 1'-0"



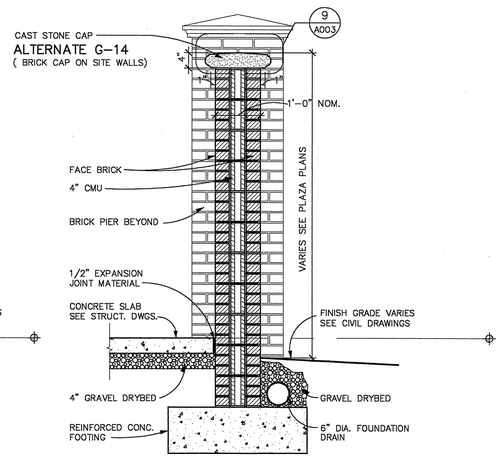
8 A003 **TYPICAL PIER CAP DETAIL**
SCALE: 1 1/2" = 1'-0"



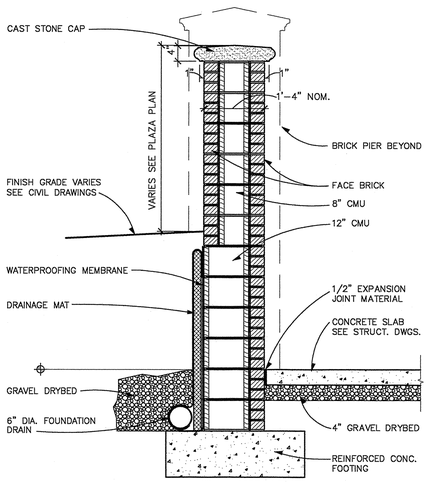
9 A003 **TYPICAL WALL CAP DETAIL**
SCALE: 1 1/2" = 1'-0"



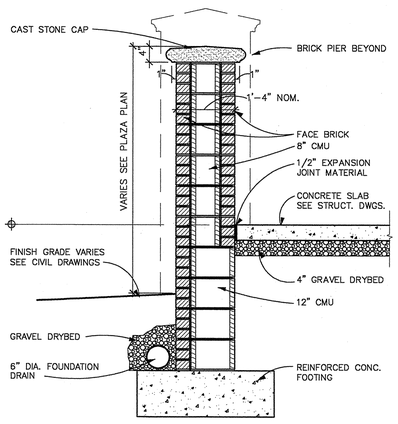
4 A003 **PIER SECTION**
SCALE: 3/4" = 1'-0"



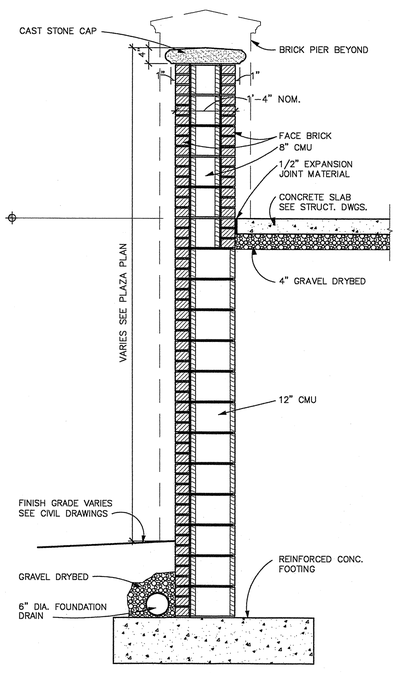
5 A003 **SCREEN WALL SECTION**
SCALE: 3/4" = 1'-0"



6 A003 **RETAINING WALL SECTION**
SCALE: 3/4" = 1'-0"



7 A003 **RETAINING WALL SECTION**
SCALE: 3/4" = 1'-0"



10 A003 **RETAINING WALL SECTION**
SCALE: 3/4" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: PLAZA SECTIONS & DETAILS

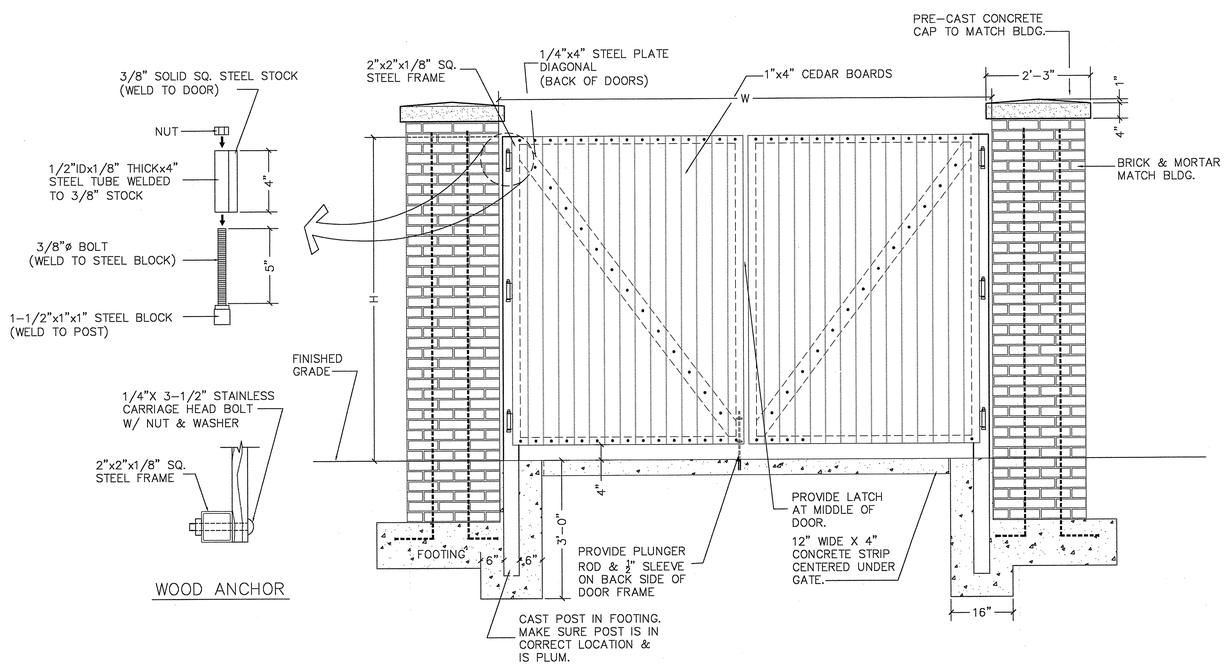
Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000

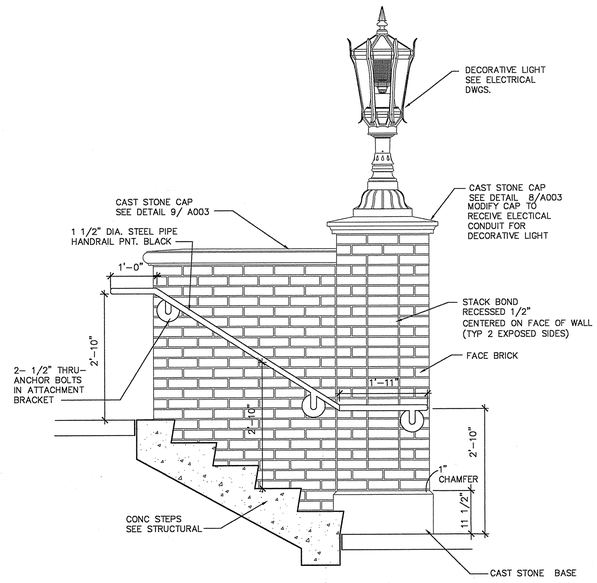
Sheet: A003 Of

CONSTRUCTION DOCUMENTS

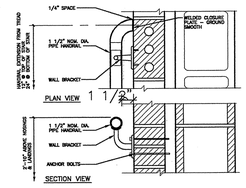


ELEVATION

1 A004 SCREEN WALL GATE
SCALE: 3/4" = 1'-0"



2 A004 SITE WALL STAIR DETAIL
SCALE: 3/4" = 1'-0"



3 A004 EXERIOR HANDRAIL
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
PLAZA SECTIONS & DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn

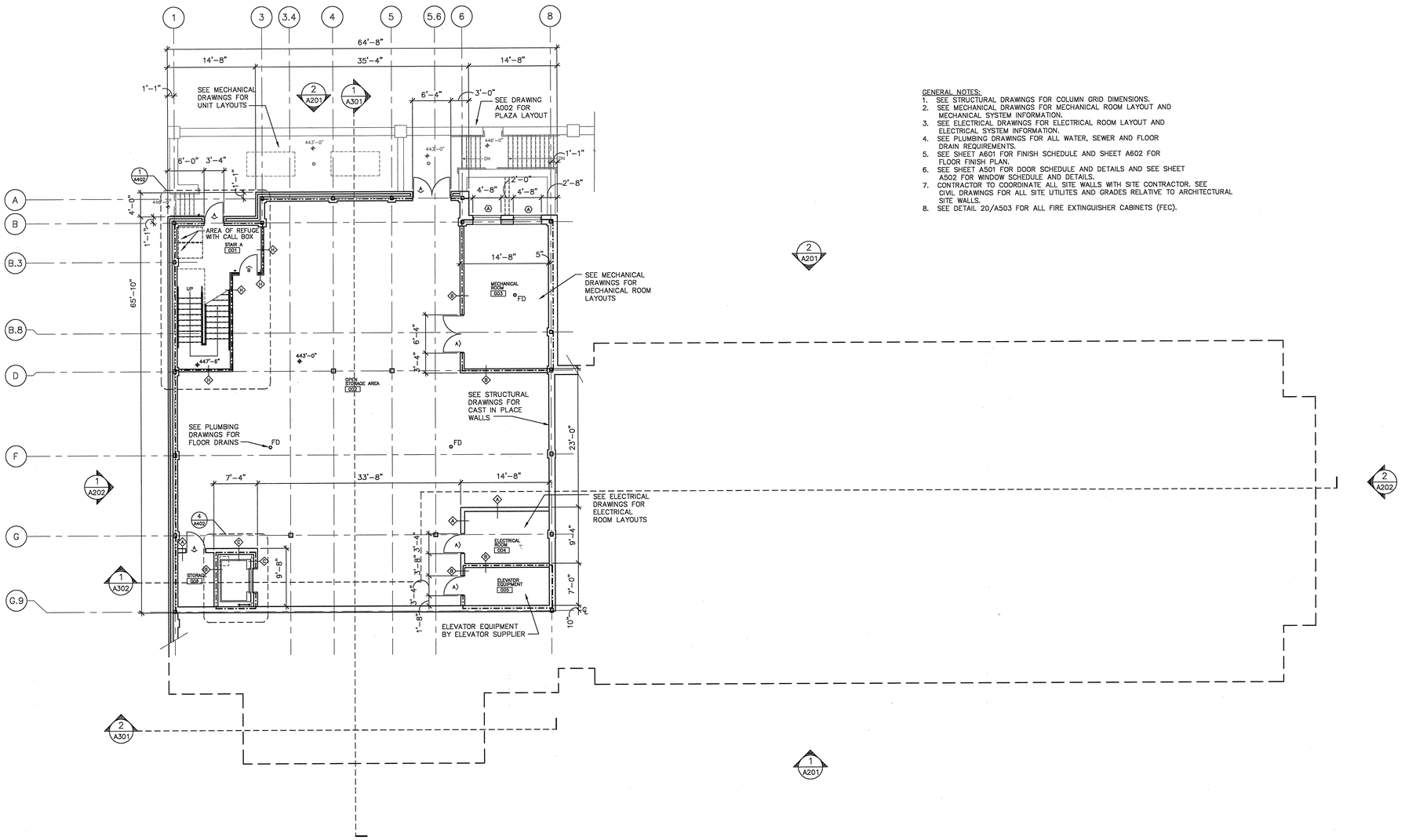
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Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet A004 Of

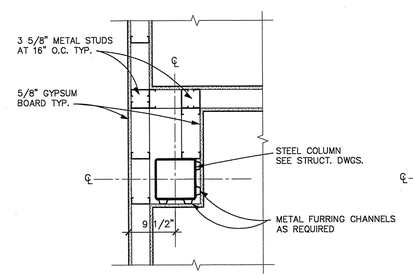
CONSTRUCTION DOCUMENTS



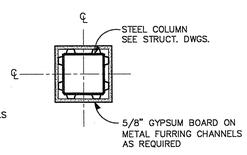
GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR COLUMN GRID DIMENSIONS.
2. SEE MECHANICAL DRAWINGS FOR MECHANICAL ROOM LAYOUT AND MECHANICAL SYSTEM INFORMATION.
3. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROOM LAYOUT AND ELECTRICAL SYSTEM INFORMATION.
4. SEE PLUMBING DRAWINGS FOR ALL WATER, SEWER AND FLOOR DRAIN REQUIREMENTS.
5. SEE SHEET A601 FOR FINISH SCHEDULE AND SHEET A602 FOR FLOOR FINISH PLAN.
6. SEE SHEET A501 FOR DOOR SCHEDULE AND DETAILS AND SEE SHEET A502 FOR WINDOW SCHEDULE AND DETAILS.
7. CONTRACTOR TO COORDINATE ALL SITE WALLS WITH SITE CONTRACTOR. SEE CIVIL DRAWINGS FOR ALL SITE UTILITES AND GRADES RELATIVE TO ARCHITECTURAL SITE WALLS.
8. SEE DETAIL 20/A503 FOR ALL FIRE EXTINGUISHER CABINETS (FEC).

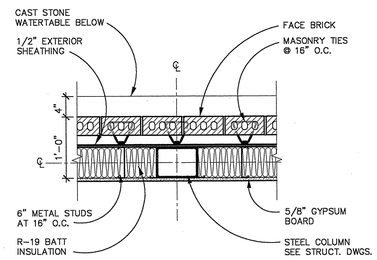
NORTH 1 A100 **FLOOR PLAN - LEVEL ZERO**
SCALE: 1/8" = 1'-0"



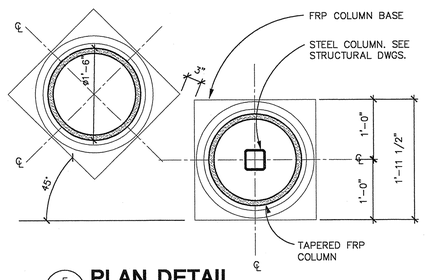
2 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"



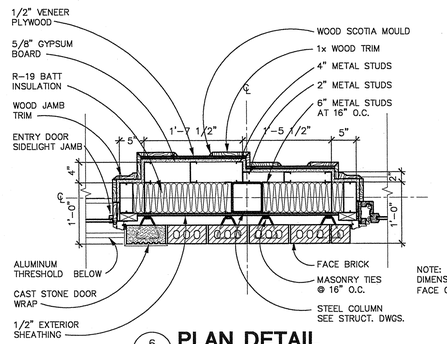
3 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"



4 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"

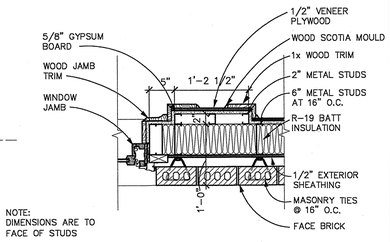


5 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"



6 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"

NOTE:
DIMENSIONS ARE TO FACE OF STUDS



7 A100 **PLAN DETAIL**
SCALE: 1" = 1'-0"

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
1/24/02
PROFESSIONAL SEAL

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: FLOOR PLAN - LEVEL ZERO

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

Revisions
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____

Issue Date: April 30, 2002

Project Number: 511576000

Sheet: A100 Of

CONSTRUCTION DOCUMENTS

NOTE:
EXTERIOR DIMENSIONS ARE TO FACE OF BRICK. SEE STRUCTURAL DWGS. FOR STRUCTURAL GRID DIMENSIONS.

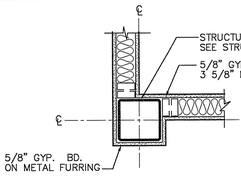
NOTE:
SEE A003 AND CIVIL DRAWINGS FOR HANDICAP RAMP

NOTE:
SEE SHEET A002 FOR PLAZA LAYOUT

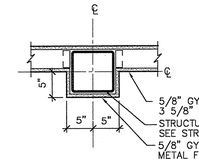
NOTE:
SEE A002 FOR MECHANICAL SCREEN WALL LAYOUT.

NORTH 1/A101 FLOOR PLAN - LEVEL ONE
SCALE: 1/8" = 1'-0"

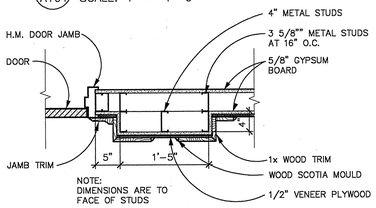
GENERAL NOTES:
1. SEE STRUCTURAL DRAWINGS FOR COLUMN GRID DIMENSIONS.
2. SEE MECHANICAL DRAWINGS FOR MECHANICAL ROOM LAYOUT AND MECHANICAL SYSTEM INFORMATION.
3. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROOM LAYOUT AND ELECTRICAL SYSTEM INFORMATION.
4. SEE PLUMBING DRAWINGS FOR ALL WATER, SEWER AND FLOOR DRAIN REQUIREMENTS.
5. SEE SHEET A601 FOR FINISH SCHEDULE AND SHEET A602 FOR FLOOR FINISH PLAN.
6. SEE SHEET A501 FOR DOOR SCHEDULE AND DETAILS AND SEE SHEET A502 FOR WINDOW SCHEDULE AND DETAILS.
7. CONTRACTOR TO COORDINATE ALL SITE WALLS WITH SITE CONTRACTOR. SEE CIVIL DRAWINGS FOR ALL SITE UTILITES AND GRADES RELATIVE TO ARCHITECTURAL SITE WALLS.
8. SEE DETAIL 20/A503 FOR ALL FIRE EXTINGUISHER CABINETS (FEC).



6/A101 PLAN DETAIL
SCALE: 1" = 1'-0"

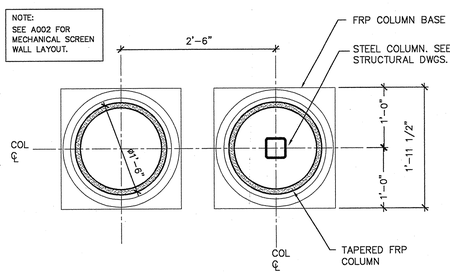


7/A101 PLAN DETAIL
SCALE: 1" = 1'-0"

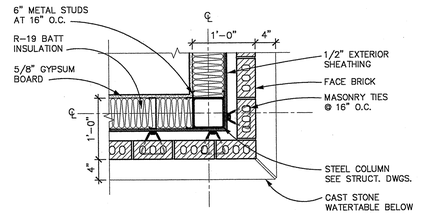


NOTE:
DIMENSIONS ARE TO FACE OF STUDS

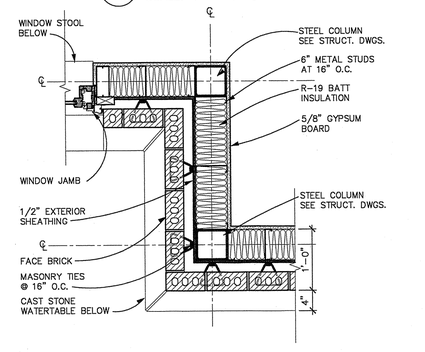
8/A101 PLAN DETAIL
SCALE: 1" = 1'-0"



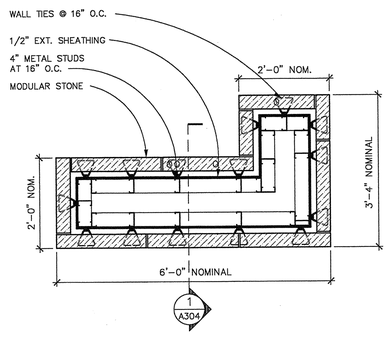
9/A101 PLAN DETAIL
SCALE: 1" = 1'-0"



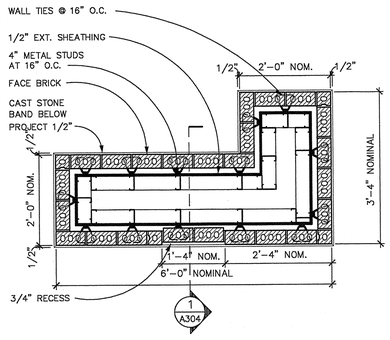
10/A101 PLAN DETAIL
SCALE: 1" = 1'-0"



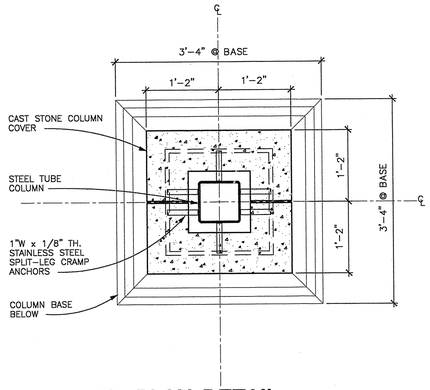
11/A101 PLAN DETAIL
SCALE: 1" = 1'-0"



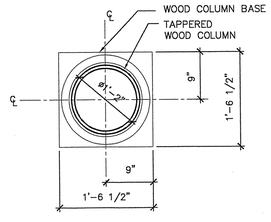
2/A101 PLAN DETAIL
SCALE: 3/4" = 1'-0"



3/A101 PLAN DETAIL
SCALE: 3/4" = 1'-0"



4/A101 PLAN DETAIL
SCALE: 1" = 1'-0"



5/A101 PLAN DETAIL
SCALE: 1" = 1'-0"

CONSTRUCTION DOCUMENTS

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REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
FLOOR PLAN - LEVEL ONE

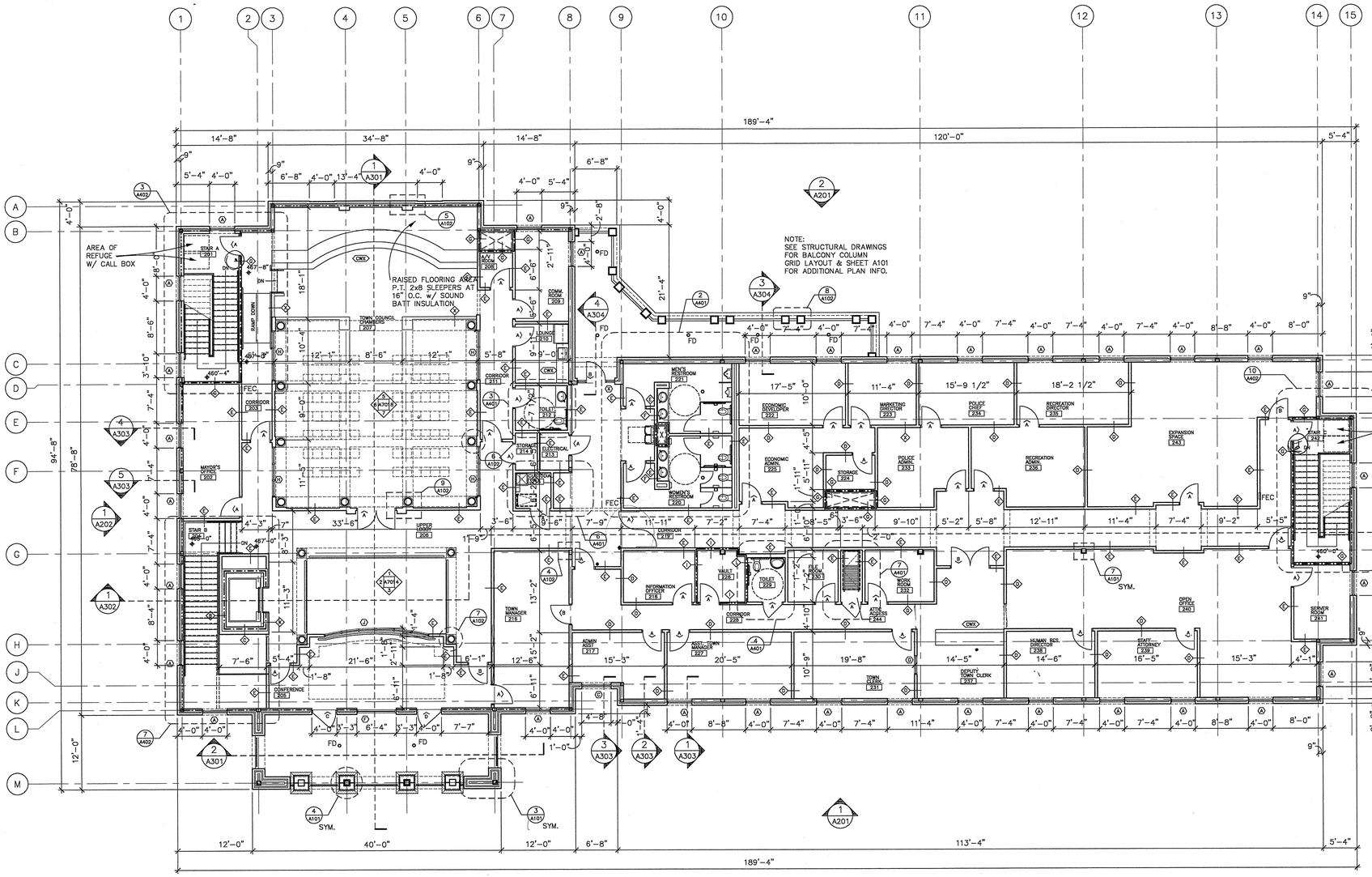
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn

Drawing File Name

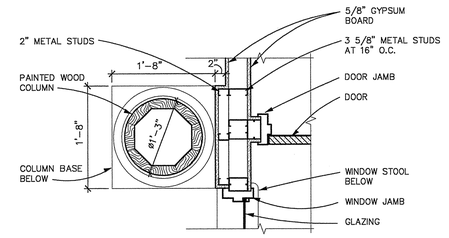
Revisions
No ____ Date ____
No ____ Date ____
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No ____ Date ____
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No ____ Date ____
No ____ Date ____
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

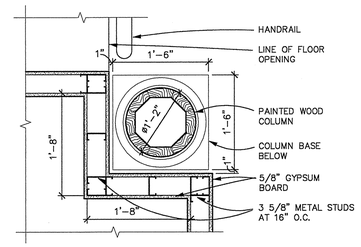
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A101



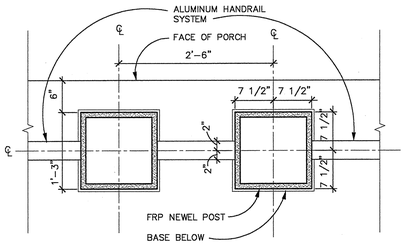
NORTH 1 A102 **FLOOR PLAN - LEVEL TWO**
SCALE: 1/8" = 1'-0"



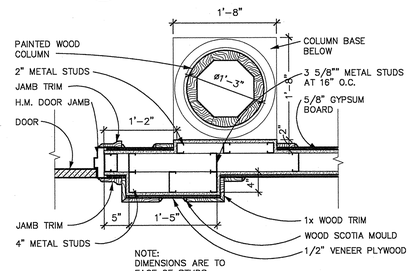
6 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"



7 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"

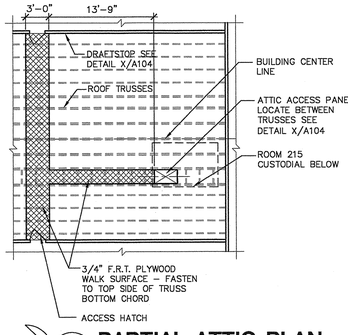


8 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"

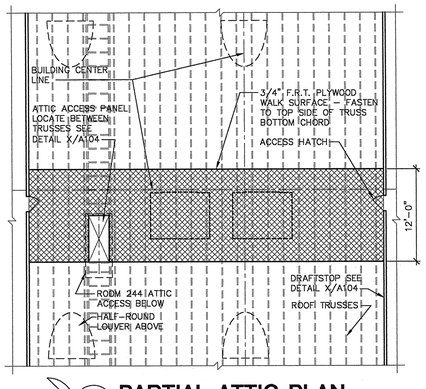


9 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"

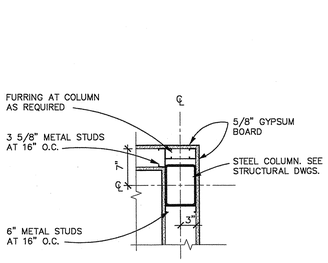
GENERAL NOTES:
1. SEE STRUCTURAL DRAWINGS FOR COLUMN GRID DIMENSIONS.
2. SEE MECHANICAL DRAWINGS FOR MECHANICAL ROOM LAYOUT AND MECHANICAL SYSTEM INFORMATION.
3. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ROOM LAYOUT AND ELECTRICAL SYSTEM INFORMATION.
4. SEE PLUMBING DRAWINGS FOR ALL WATER, SEWER AND FLOOR DRAIN REQUIREMENTS.
5. SEE SHEET A601 FOR FINISH SCHEDULE AND SHEET A602 FOR FLOOR FINISH PLAN.
6. SEE SHEET A501 FOR DOOR SCHEDULE AND DETAILS AND SEE SHEET A502 FOR WINDOW SCHEDULE AND DETAILS.
7. CONTRACTOR TO COORDINATE ALL SITE WALLS WITH SITE CONTRACTOR. SEE CIVIL DRAWINGS FOR ALL SITE UTILITES AND GRADES RELATIVE TO ARCHITECTURAL SITE WALLS.
8. SEE DETAIL 20/A503 FOR ALL FIRE EXTINGUISHER CABINETS (FEC).



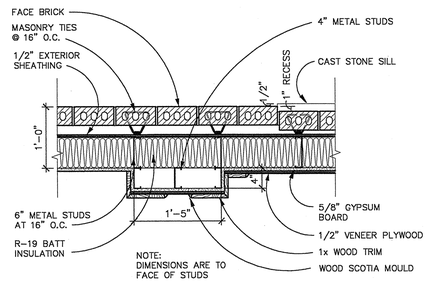
NORTH 2 A102 **PARTIAL ATTIC PLAN**
SCALE: 1/8" = 1'-0"



NORTH 3 A102 **PARTIAL ATTIC PLAN**
SCALE: 1/8" = 1'-0"



4 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"



5 A102 **PLAN DETAIL**
SCALE: 1" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

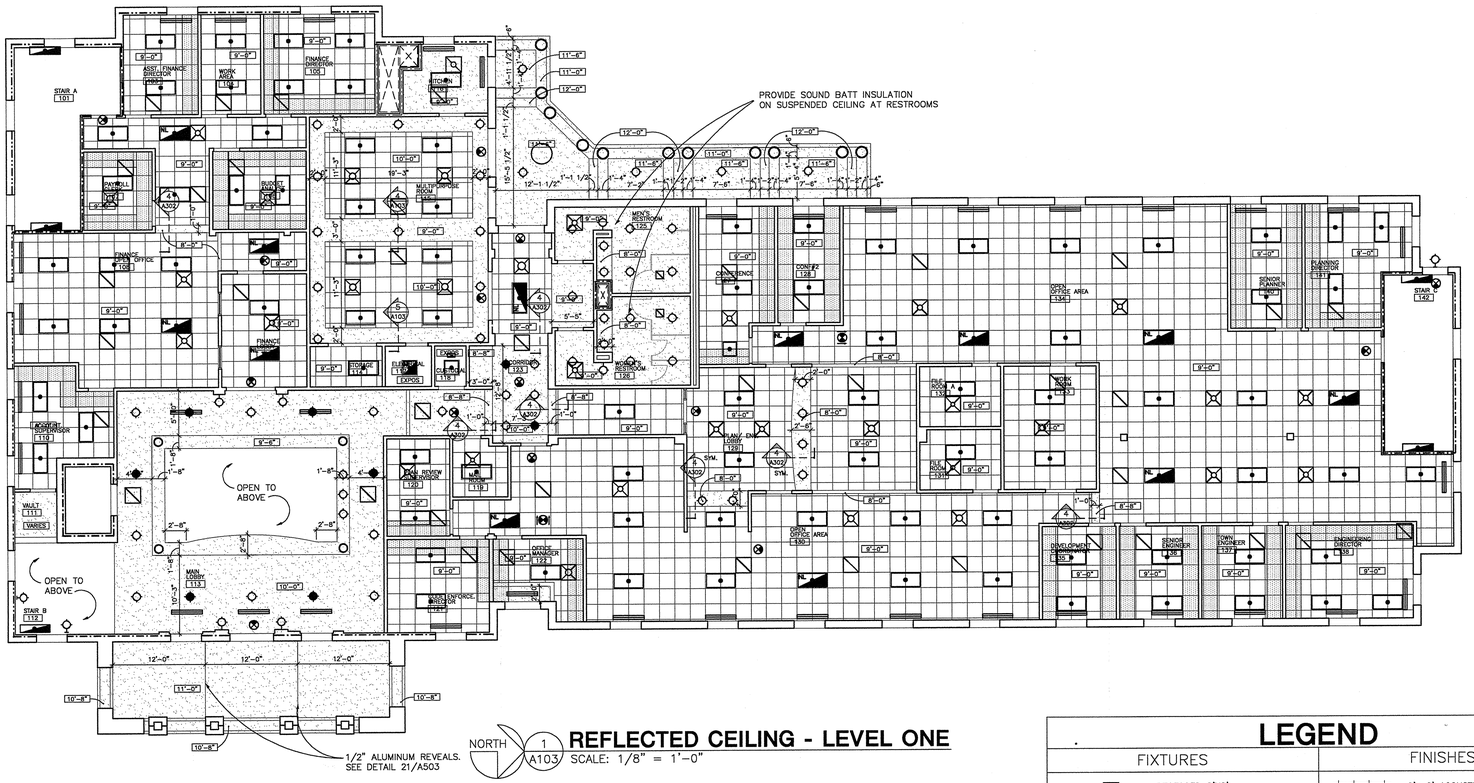
Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
FLOOR PLAN - LEVEL TWO

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

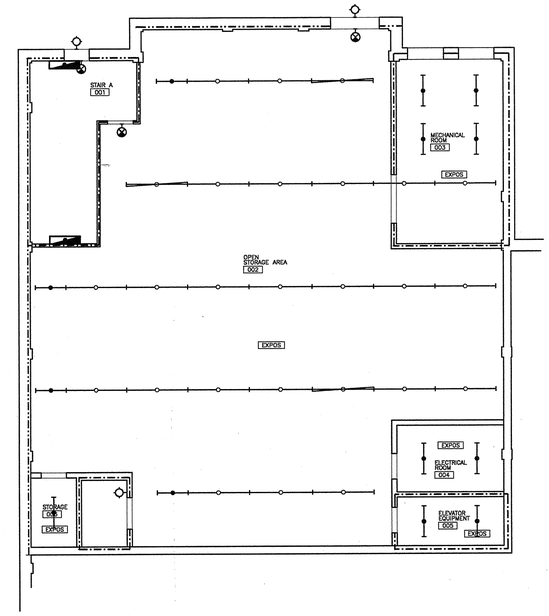
Project Number
511576000
Sheet A102 Of

CONSTRUCTION DOCUMENTS



NORTH 1/A103 **REFLECTED CEILING - LEVEL ONE**
SCALE: 1/8" = 1'-0"

NORTH 2/A103 **REFLECTED CEILING - LEVEL TWO**
SCALE: 1/8" = 1'-0"



NORTH 3/A103 **REFLECTED CEILING - LEVEL ZERO**
SCALE: 1/8" = 1'-0"

LEGEND

FIXTURES

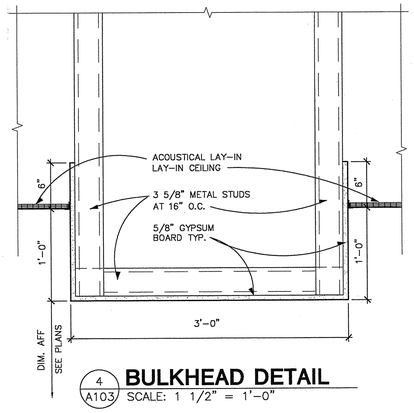
- RECESSED 2'X2' FLUORESCENT LUMINAIRE
- RECESSED 2'X4' FLUORESCENT LUMINAIRE
- INDIRECT LINEAR FLOURESCENT FIXTURE
- RECESSED MOUNTED DOWNLIGHT
- TRACK LIGHTING
- FLOURESCENT TUBE LIGHT
- UNIVERSAL EXIT LIGHTS (CEILING & WALL MOUNTED)
- SUPPLY DIFFUSER
- EXHAUST OR RETURN GRILLE OR REGISTER
- ATTIC ACCESS PANEL
- SMOKE DETECTOR

FINISHES

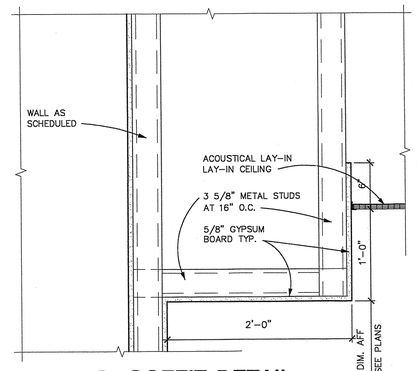
- 2'x 2' ACOUSTICAL LAY-IN CEILING
- SUSPENDED GYPSUM BOARD CEILING
- SOUND ATTENUATION BLANKET ABOVE CEILING. AT EDGE WHERE WALL OCCURS ADD SOUND IN WALL/FLOOR TO CEILING AT EDGE. WHERE SOFFIT OCCURS INSTALL G.W.B ON BOTH SIDES OF SOFFIT FRAMING FROM CEILING TO DECK AND INSTALL SOUND BATTS

GENERAL NOTES

1. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING FIXTURES AND POWER REQUIREMENTS.
2. REFER TO MECHANICAL DRAWINGS FOR SUPPLY AND RETURN EQUIPMENT.



4/A103 **BULKHEAD DETAIL**
SCALE: 1 1/2" = 1'-0"



5/A103 **SOFFIT DETAIL**
SCALE: 1 1/2" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 4/30/02 NORTH CAROLINA

Holly Springs Town Hall
Holly Springs, North Carolina

Project

REFLECTED CEILING PLANS

Sheet Title

Division President
Robert Bishop, AIA

Job Captain
Brian N. Simpson,CDT,CSI

Drawn By
G. Bryan Payne, CDT

Date Drawn

Drawing File Name

Revisions
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet Of
A103

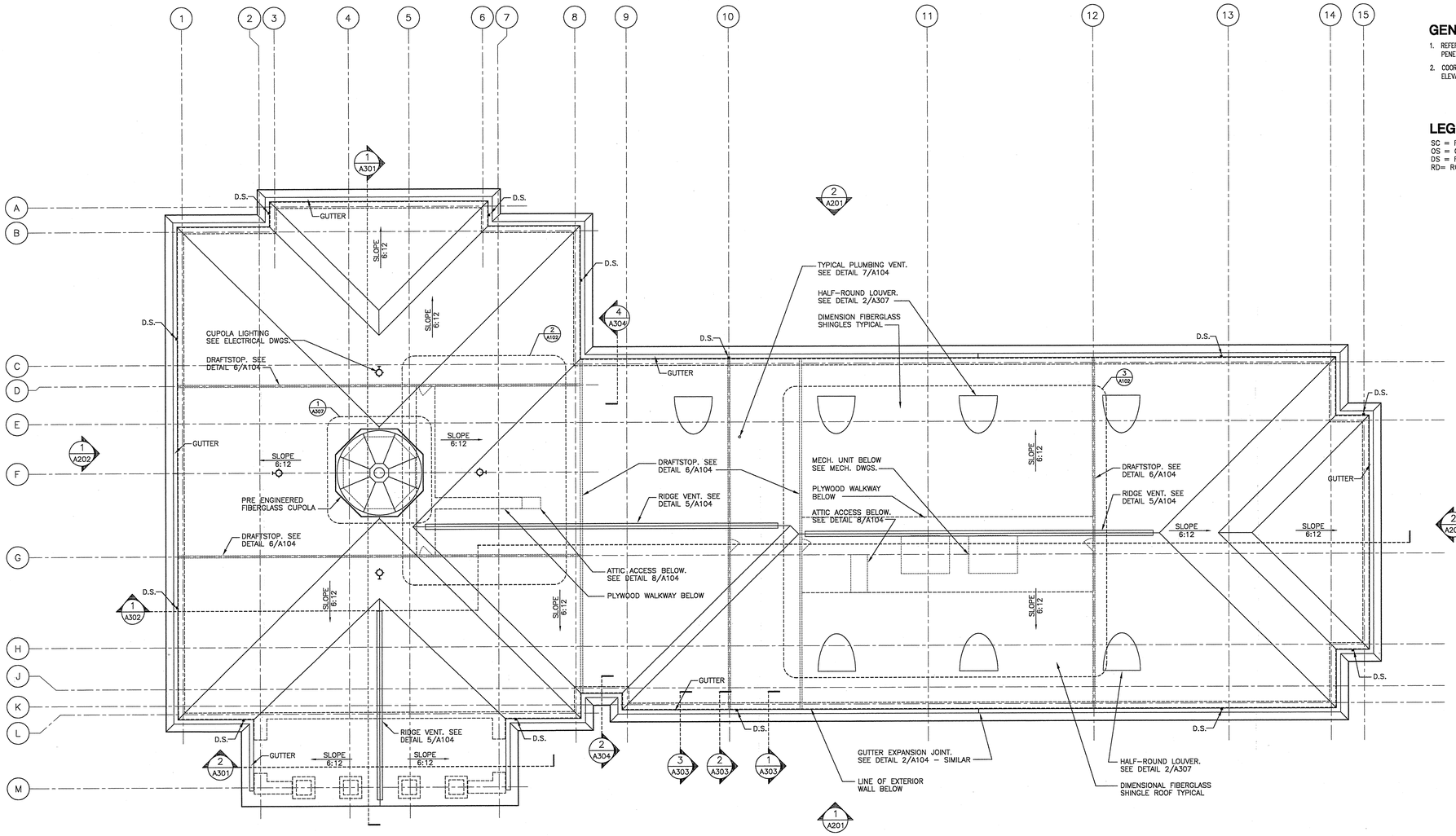
CONSTRUCTION DOCUMENTS

GENERAL NOTES:

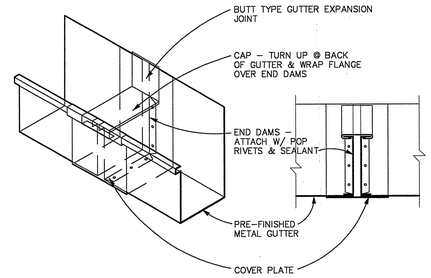
1. REFER TO PLUMBING & MECHANICAL DRAWINGS FOR ROOF PENETRATIONS QUANTITY & LOCATIONS.
2. COORDINATE DOWNSPOUT LOCATIONS WITH BUILDING ELEVATIONS.

LEGEND:

SC = ROOF SCUPPER
OS = OVERFLOW ROOF SCUPPER
DS = ROOF DOWNSPOUT
RD= ROOF DRAIN

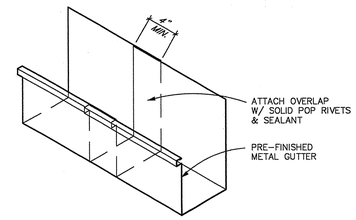


1 A104 ROOF PLAN
SCALE: 1/8" = 1'-0"



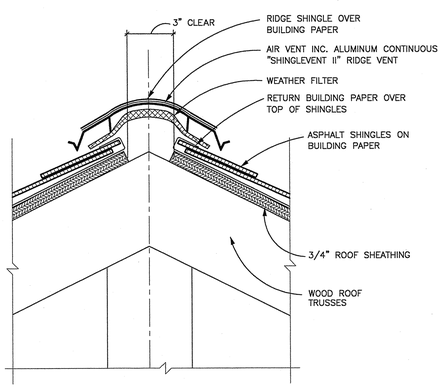
ISOMETRIC VIEW SECTION

2 A104 GUTTER EXP. JOINT
SCALE: 1 1/2" = 1'-0"

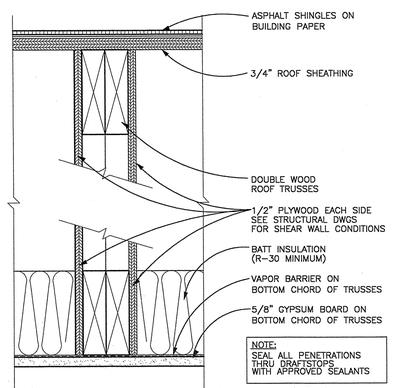


ISOMETRIC VIEW

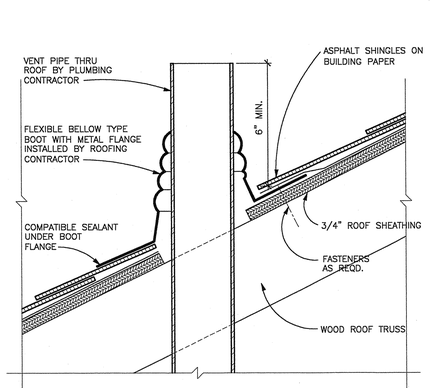
3 A104 GUTTER SECTION JOINT
SCALE: 1 1/2" = 1'-0"



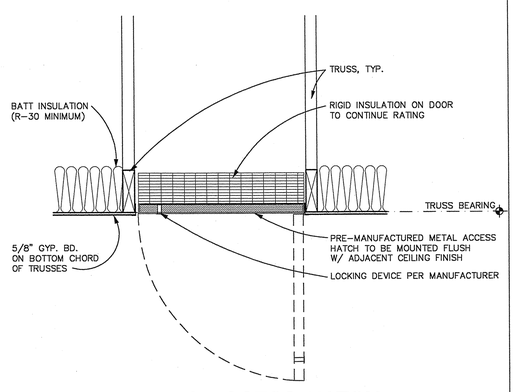
5 A104 RIDGE VENT
SCALE: 3" = 1'-0"



6 A104 DRAFTSTOPPING DETAIL
SCALE: 3" = 1'-0"



7 A104 PLUMBING VENT DETAIL
SCALE: 3" = 1'-0"



8 A104 ATTIC ACCESS HATCH
SCALE: 1 1/2" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

Project: Holly Springs Town Hall, Holly Springs, North Carolina

Sheet Title: ROOF PLAN AND DETAILS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

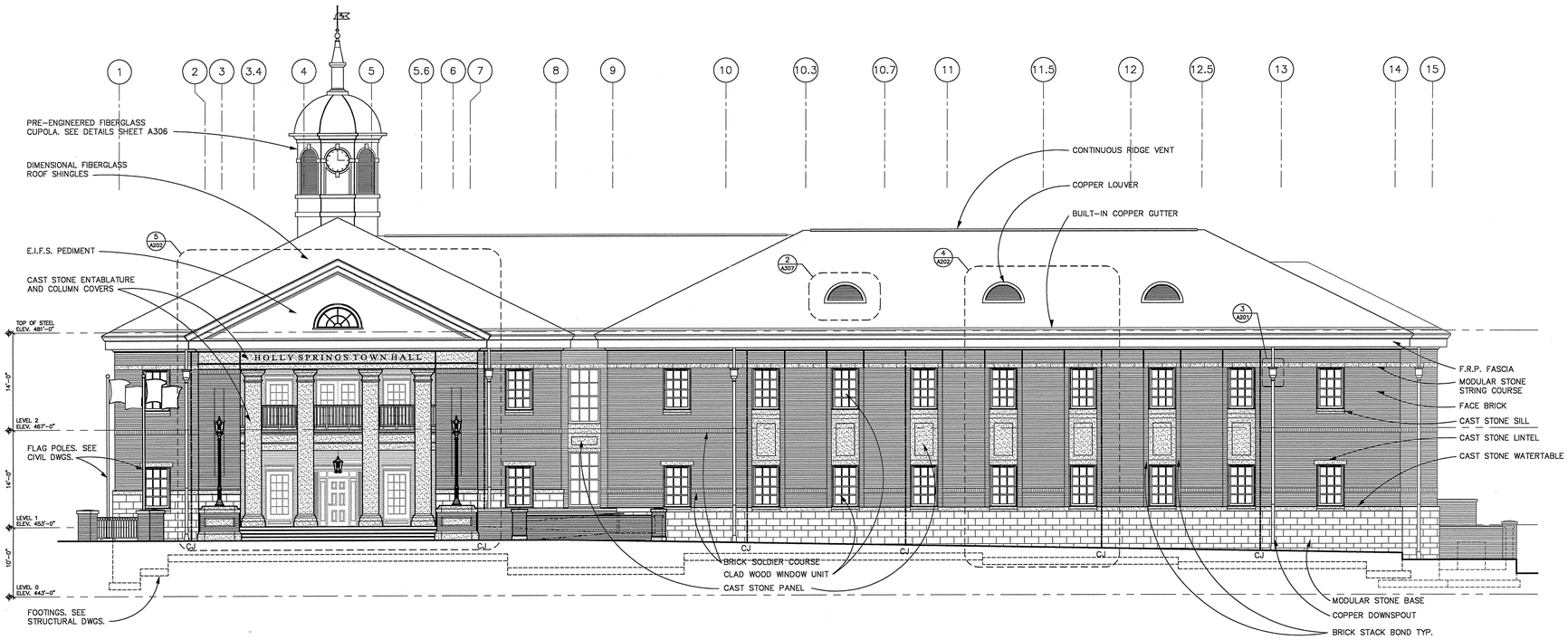
Revisions
No ____ Date ____
No ____ Date ____
No ____ Date ____
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No ____ Date ____

Issue Date: April 30, 2002

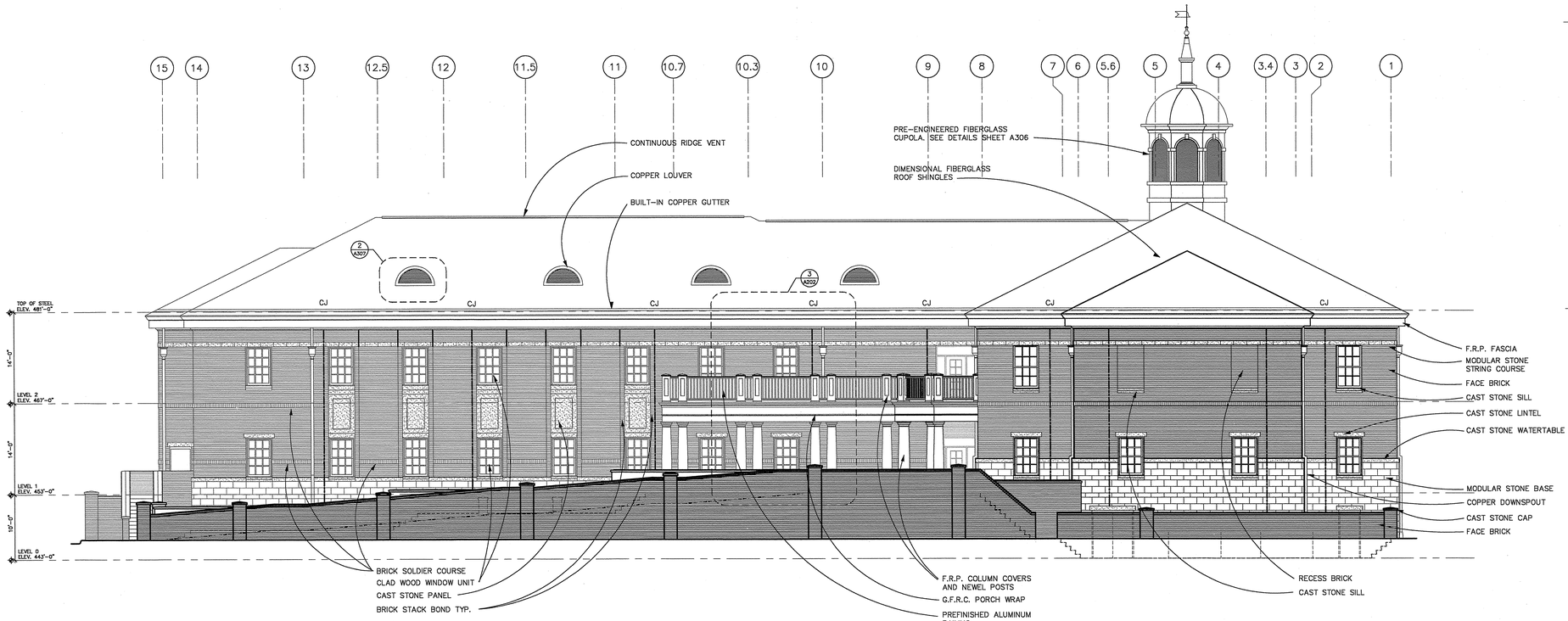
Project Number: 511576000

Sheet A104 Of

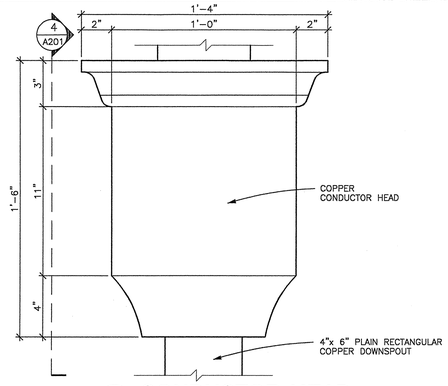
CONSTRUCTION DOCUM



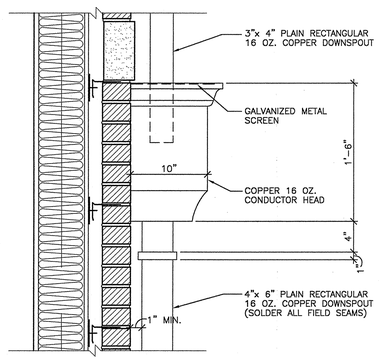
1 A201 **EAST ELEVATION**
SCALE: 1/8" = 1'-0"



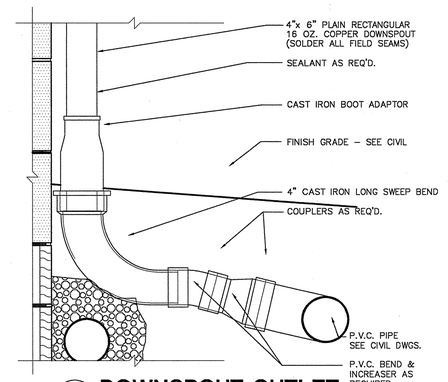
2 A201 **WEST ELEVATION**
SCALE: 1/8" = 1'-0"



3 A201 **CONDUCTOR HEAD**
SCALE: 3" = 1'-0"



4 A201 **CONDUCTOR HEAD**
SCALE: 1 1/2" = 1'-0"



5 A201 **DOWNSPOUT OUTLET**
SCALE: 1 1/2" = 1'-0"

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5781
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Project
Holly Springs Town Hall
Holly Springs, North Carolina

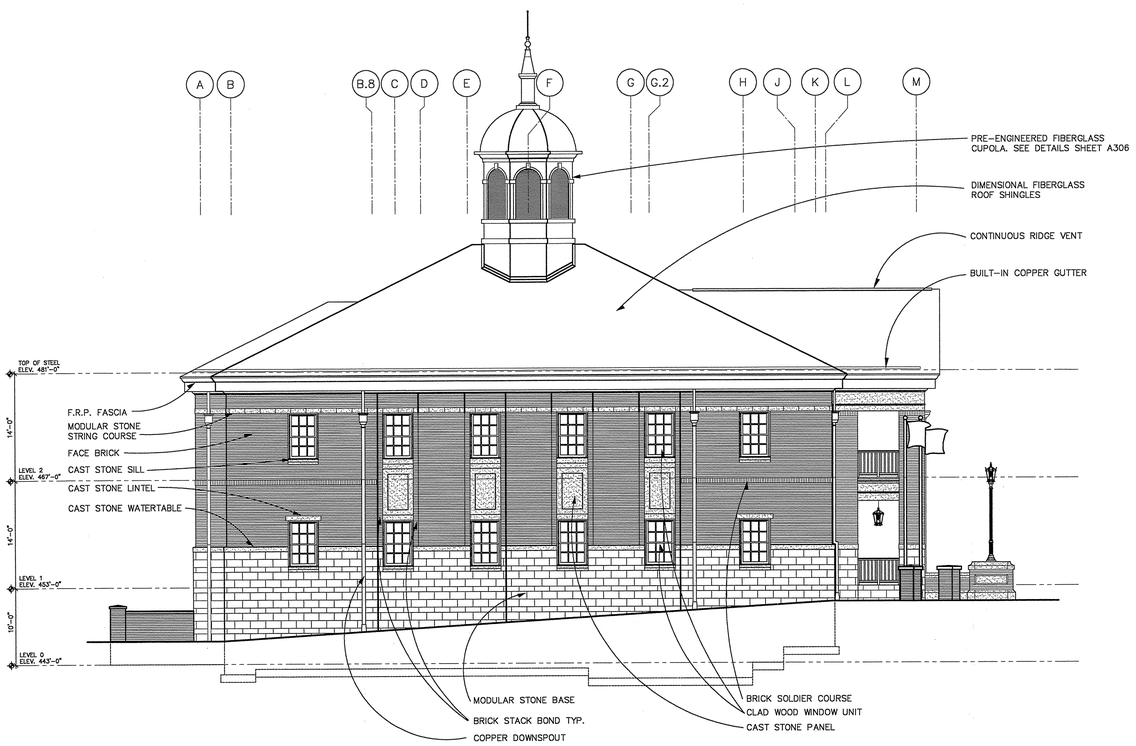
Sheet Title
EXTERIOR ELEVATIONS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet Of
A201

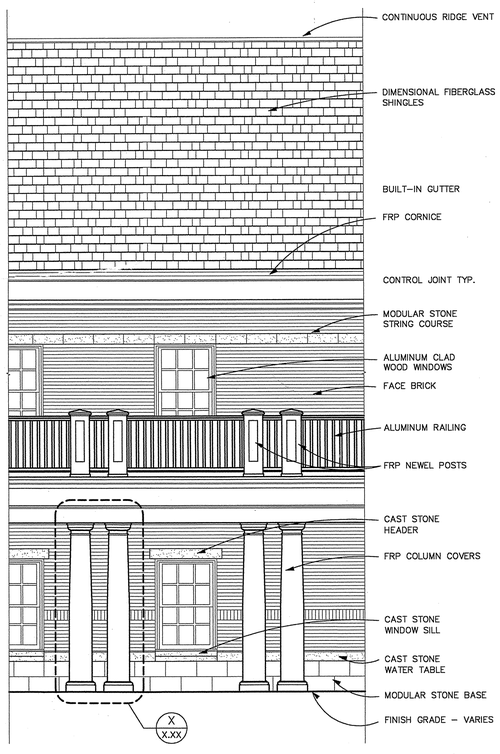
CONSTRUCTION DOCUMENTS



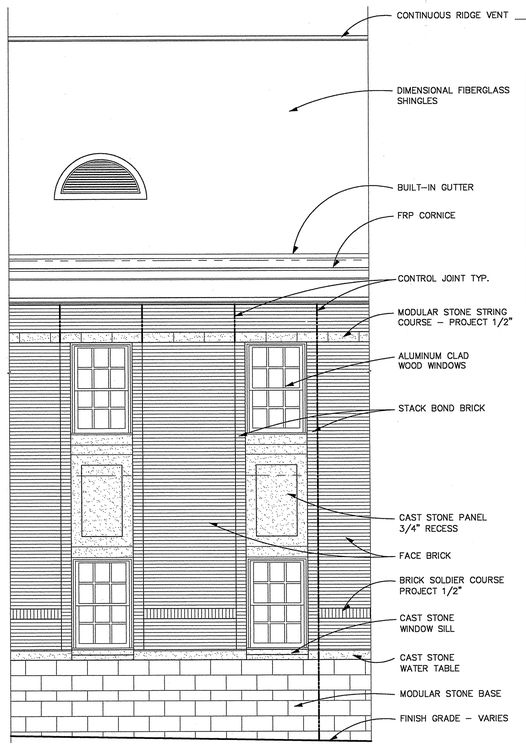
1 A202 **SOUTH ELEVATION**
SCALE: 1/8" = 1'-0"



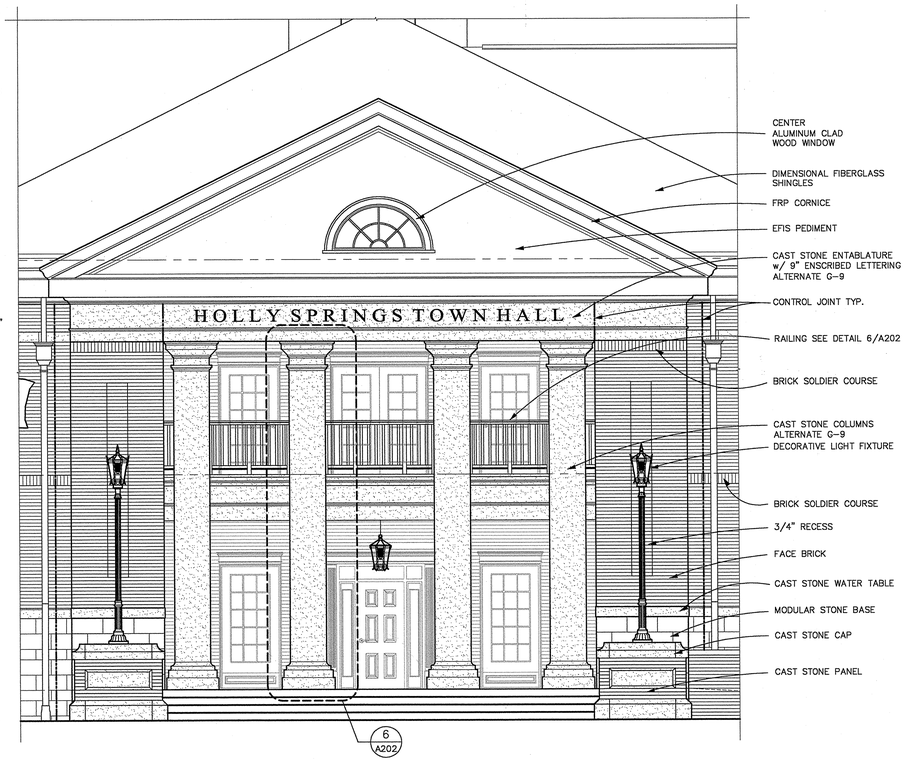
2 A202 **NORTH ELEVATION**
SCALE: 1/8" = 1'-0"



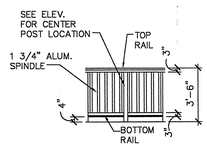
3 A202 **ENLARGED ELEVATION**
SCALE: 1/4" = 1'-0"



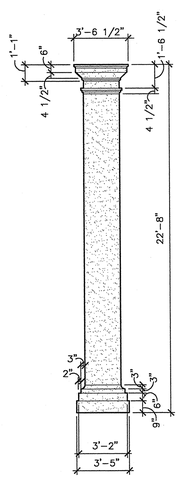
4 A202 **ENLARGED ELEVATION**
SCALE: 1/4" = 1'-0"



5 A202 **ENLARGED ELEVATION**
SCALE: 1/4" = 1'-0"



7 A202 **RAIL DETAIL**
SCALE: 1/4" = 1'-0"



6 A202 **CAST STONE COLUMN DETAIL**
SCALE: 1/4" = 1'-0"

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

Project: Holly Springs Town Hall, Holly Springs, North Carolina

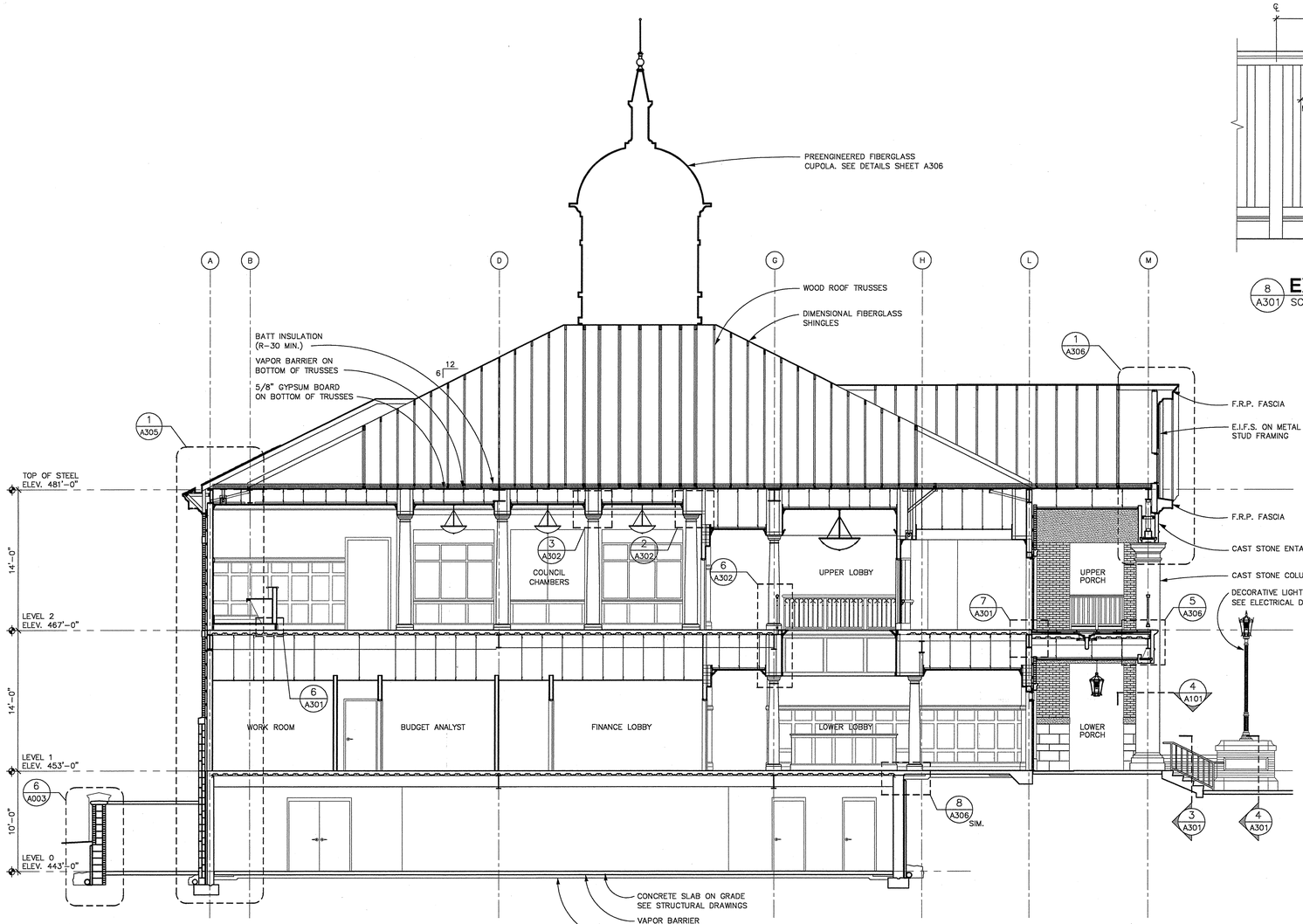
Sheet Title: EXTERIOR ELEVATIONS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:
Revisions
No ____ Date ____
Issue Date: April 30, 2002

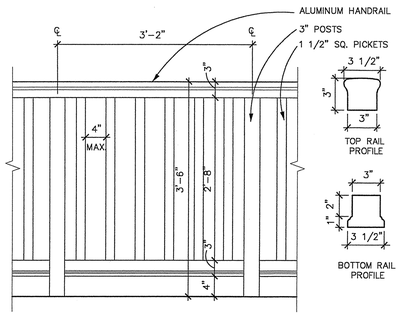
Project Number: 511576000

Sheet: A202 Of

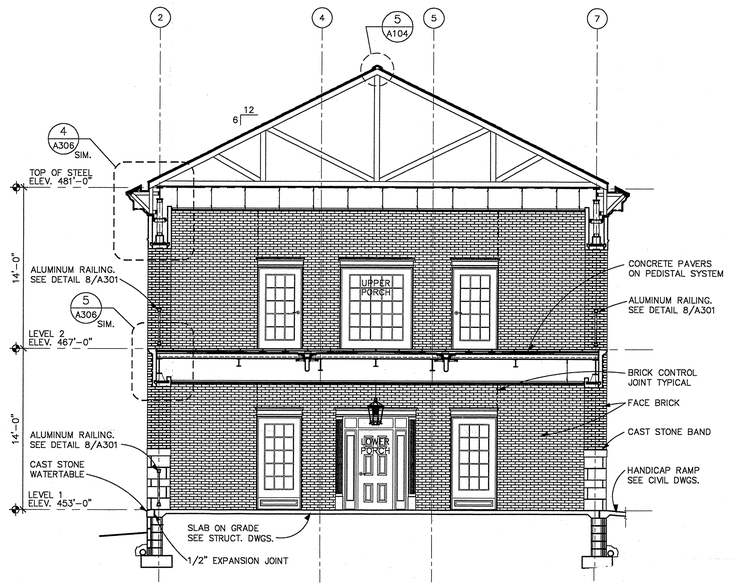
CONSTRUCTION DOCUM



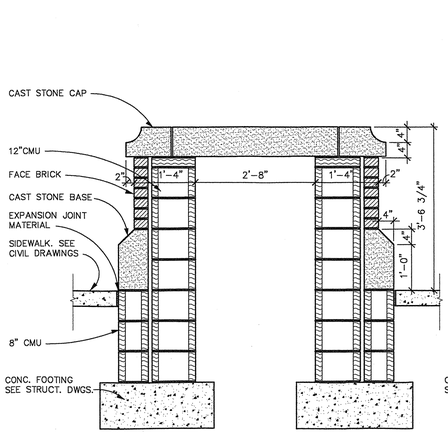
1 A301 BUILDING SECTION
SCALE: 3/16" = 1'-0"



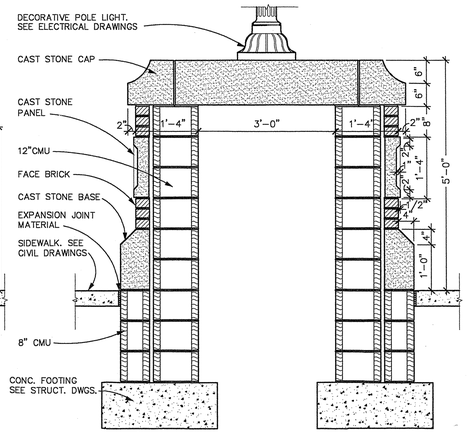
8 A301 EXTERIOR RAILING DETAIL
SCALE: 1" = 1'-0"



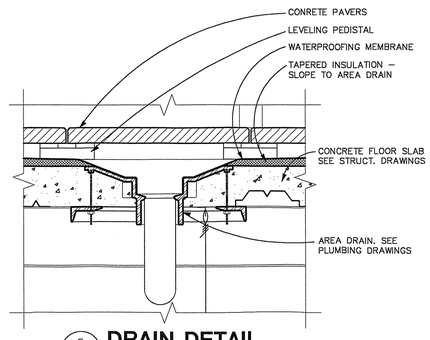
2 A301 SECTION AT PORTICO
SCALE: 3/16" = 1'-0"



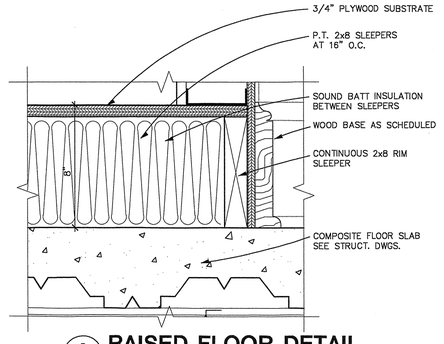
3 A301 WING WALL DETAIL
SCALE: 3/4" = 1'-0"



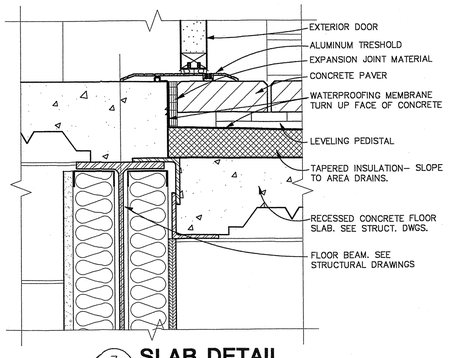
4 A301 WING WALL DETAIL
SCALE: 3/4" = 1'-0"



5 A301 DRAIN DETAIL
SCALE: 1 1/2" = 1'-0"



6 A301 RAISED FLOOR DETAIL
SCALE: 3" = 1'-0"



7 A301 SLAB DETAIL
SCALE: 3" = 1'-0"

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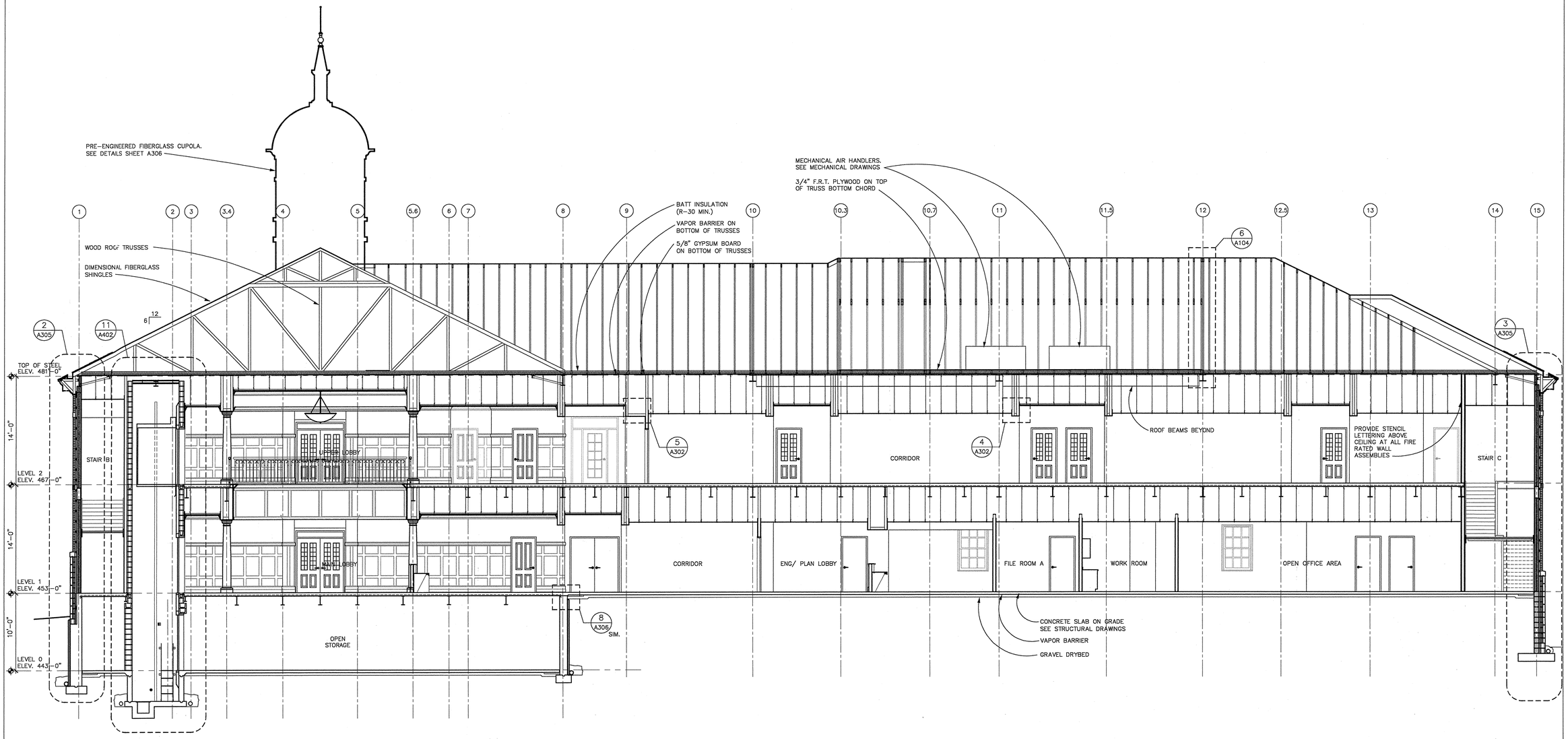
Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
BUILDING SECTIONS

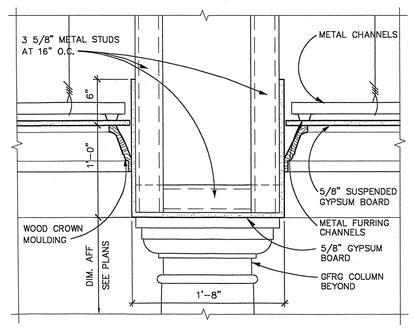
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet
A301
Of

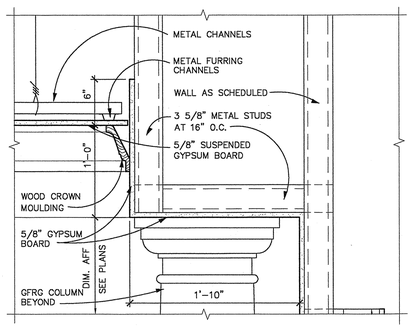
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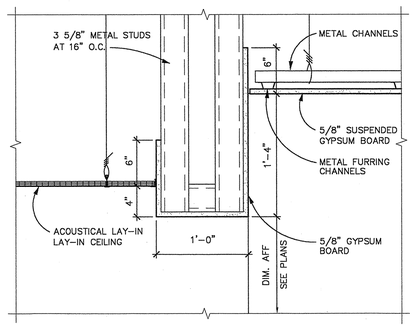
1 A302 BUILDING SECTION
SCALE: 3/16" = 1'-0"



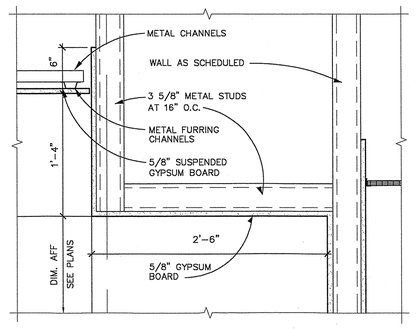
2 A302 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



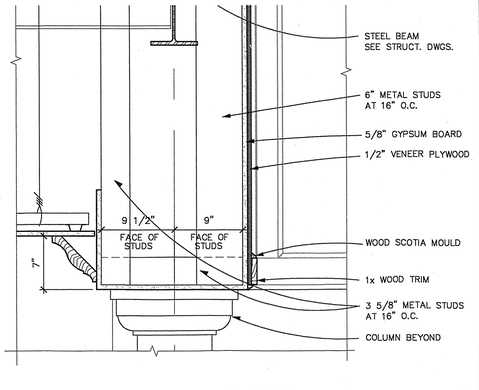
3 A302 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



4 A302 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



5 A302 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



6 A302 BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"

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REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

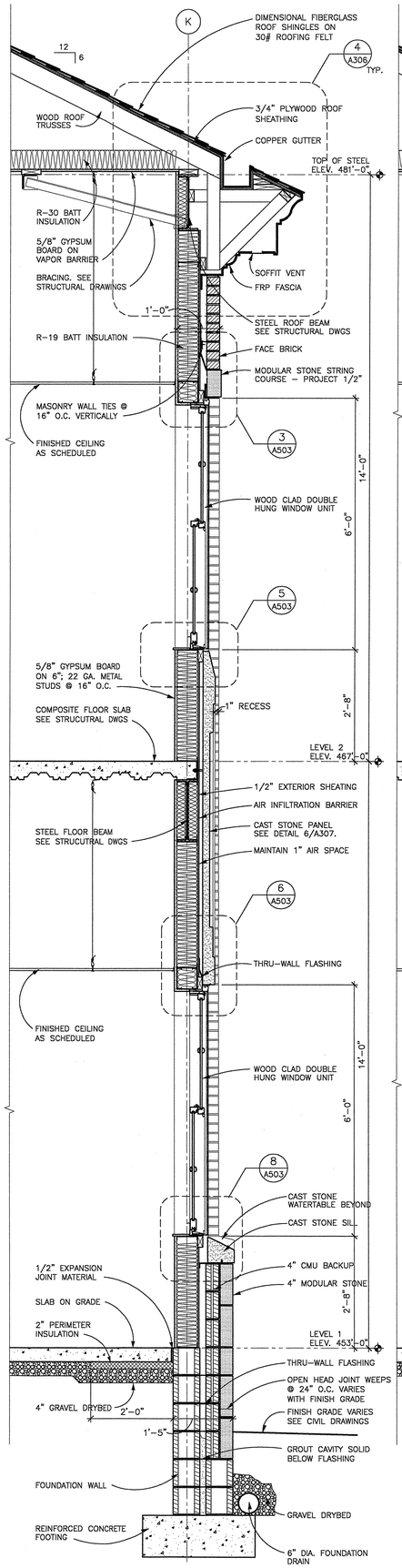
Sheet Title: BUILDING SECTION

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:

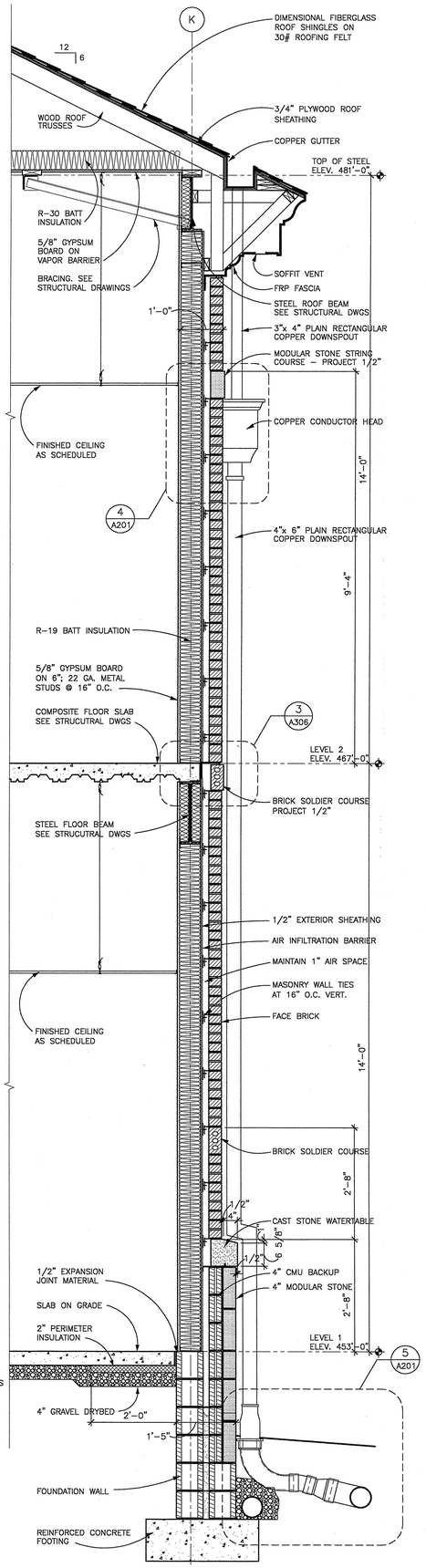
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000
Sheet: A302 Of

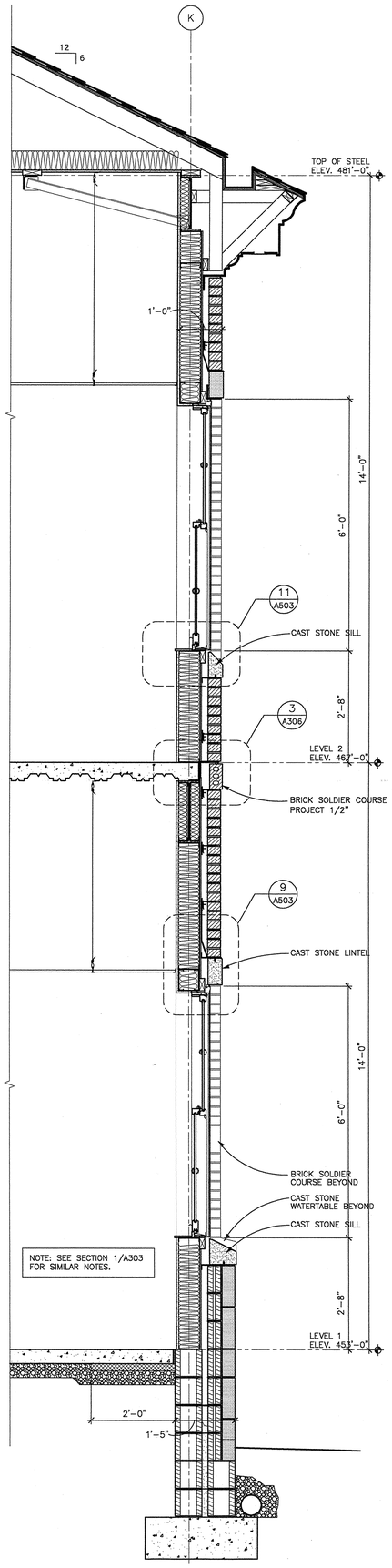
CONSTRUCTION DOCUMENTS



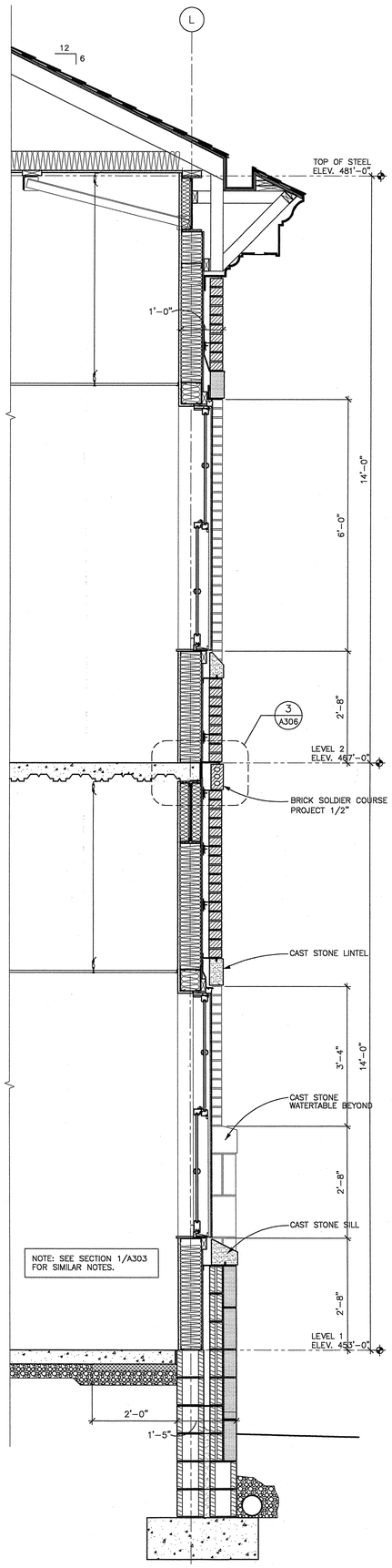
1 A303 **WALL SECTION**
SCALE: 3/4" = 1'-0"



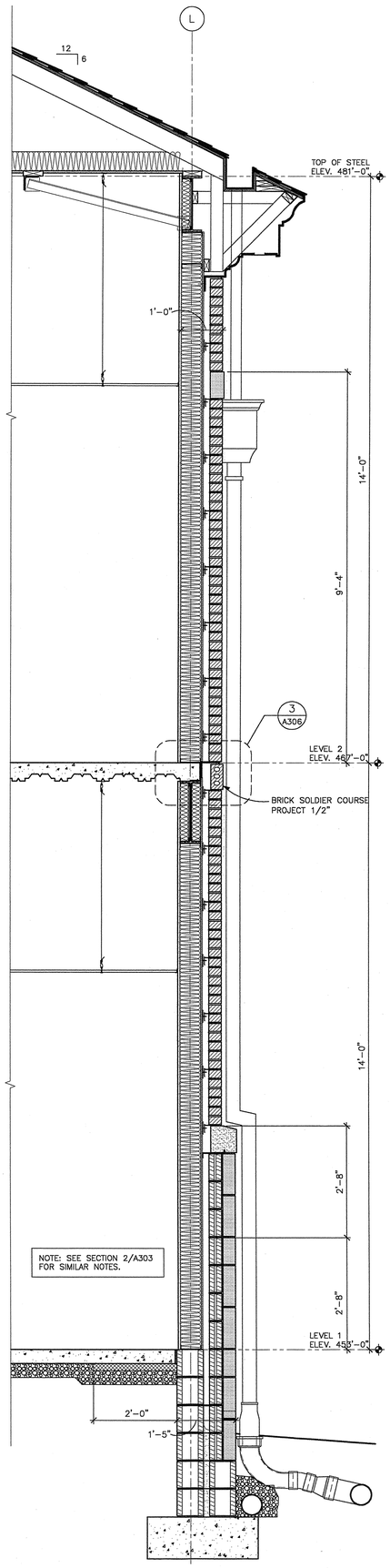
2 A303 **WALL SECTION**
SCALE: 3/4" = 1'-0"



3 A303 **WALL SECTION**
SCALE: 3/4" = 1'-0"



4 A303 **WALL SECTION**
SCALE: 3/4" = 1'-0"



5 A303 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
WALL SECTIONS

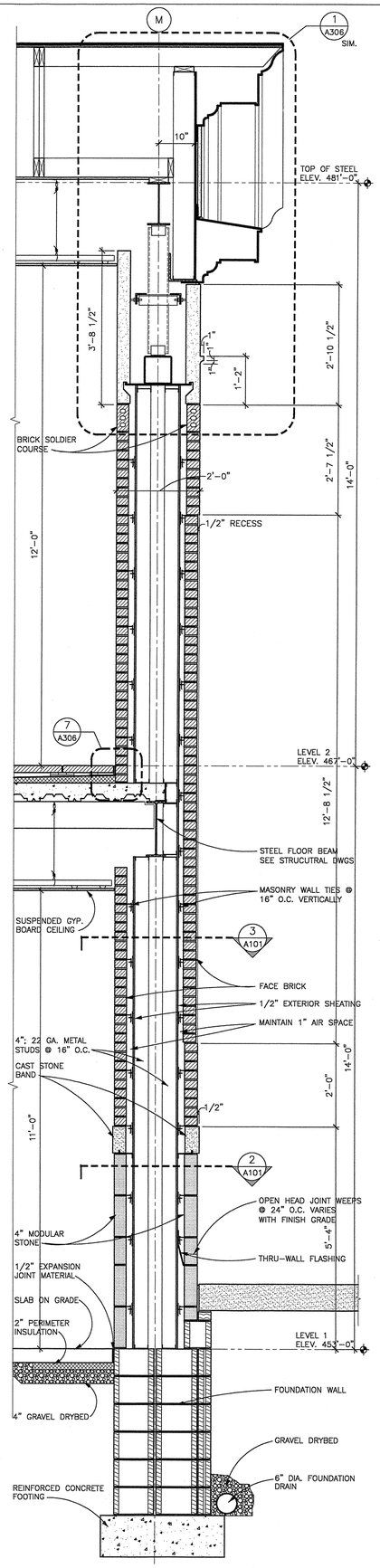
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn

Drawing File Name

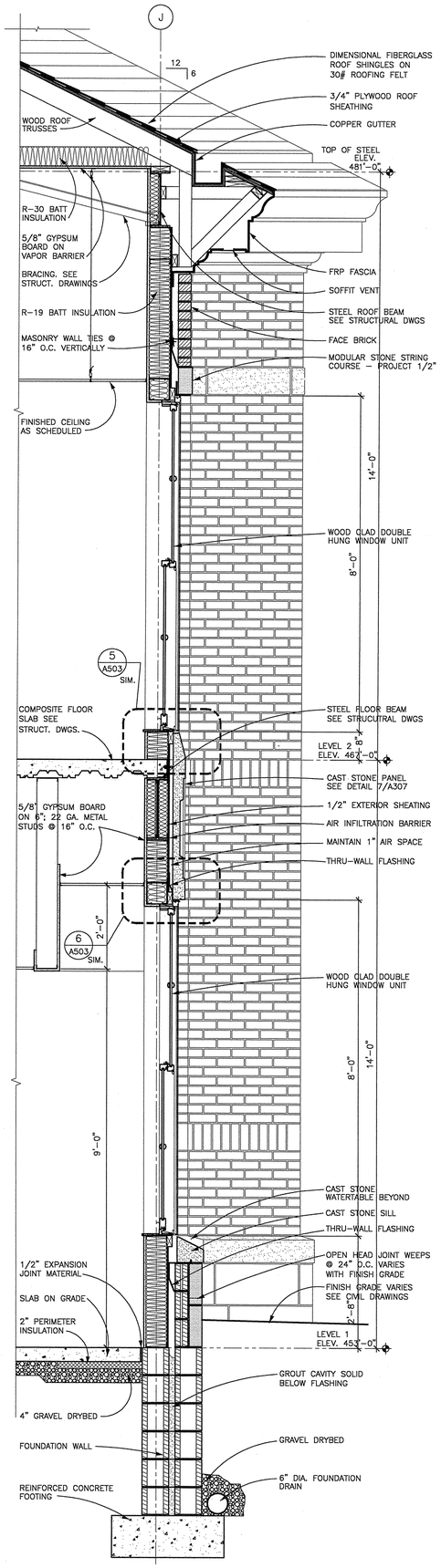
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Issue Date: April 30, 2002

Project Number
511576000
Sheet Of
A303

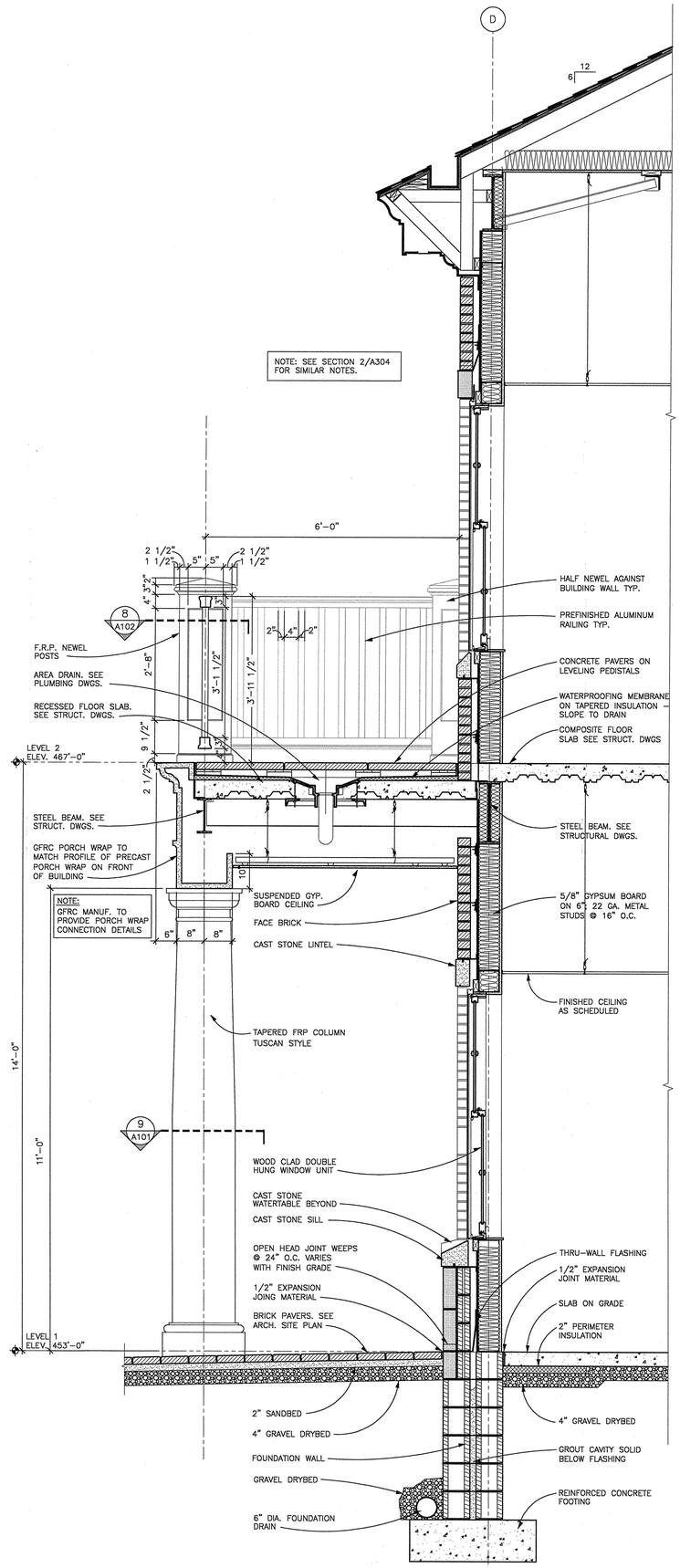
CONSTRUCTION DOCUMENTS



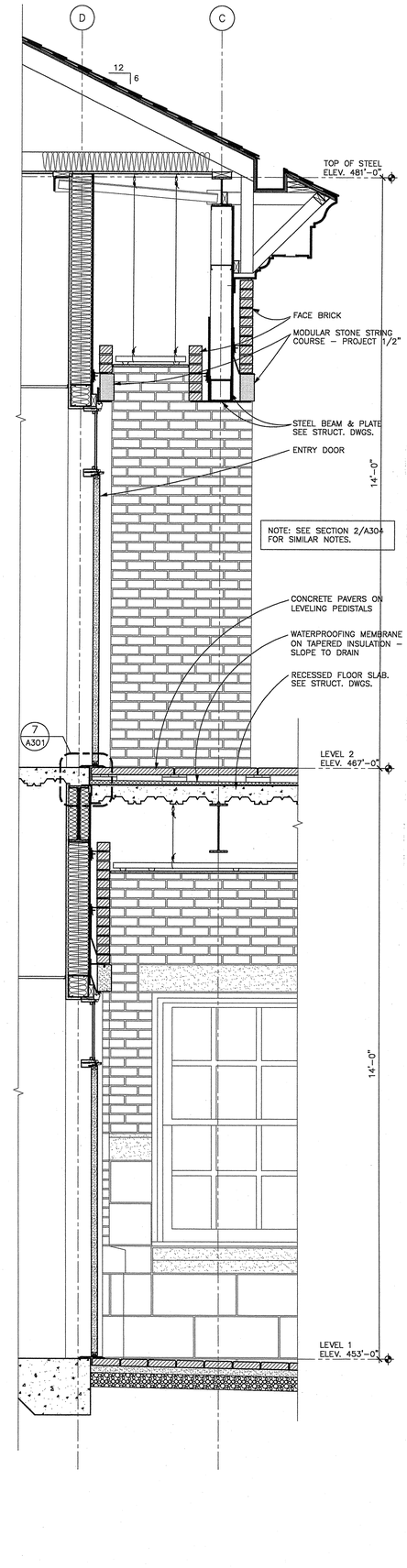
1 WALL SECTION
1/A304 SCALE: 3/4" = 1'-0"



2 WALL SECTION
2/A304 SCALE: 3/4" = 1'-0"



3 SECTION AT PORCH
3/A304 SCALE: 3/4" = 1'-0"



4 SECTION AT PORCH
4/A304 SCALE: 3/4" = 1'-0"

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
WALL SECTIONS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name

Revisions
No ____ Date ____
No ____ Date ____
No ____ Date ____
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No ____ Date ____
No ____ Date ____
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet Of
A304

CONSTRUCTION DOCUMENTS

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5845
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

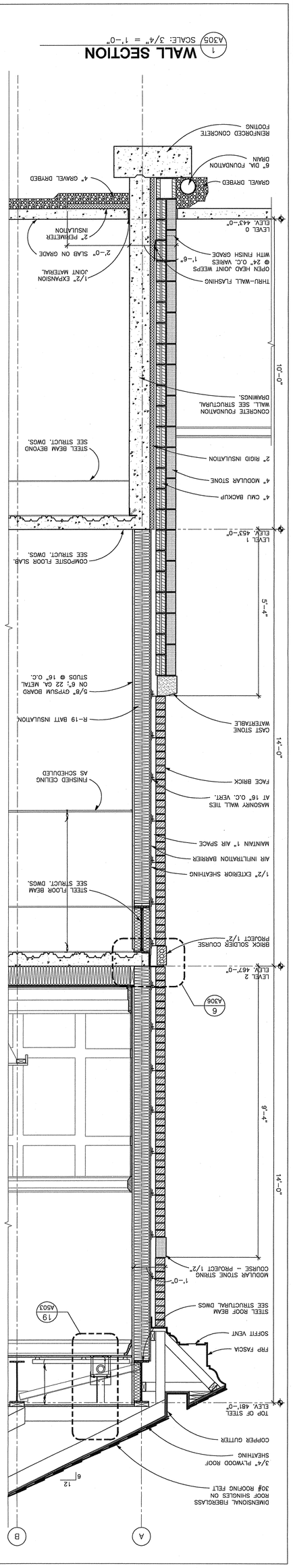
Sheet Title
WALL SECTIONS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
Gregory Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date
Issue Date: April 30, 2002

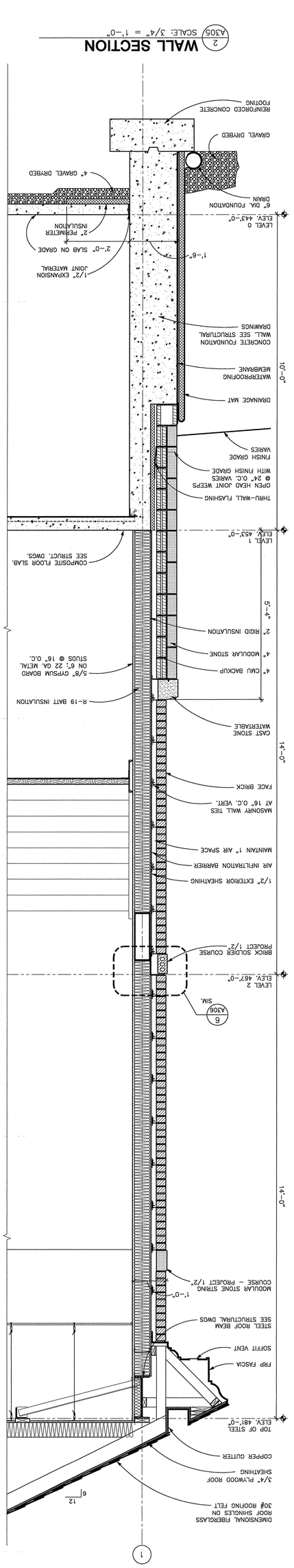
Project Number
511576000
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A305
of

CONSTRUCTION DOCUMENTS

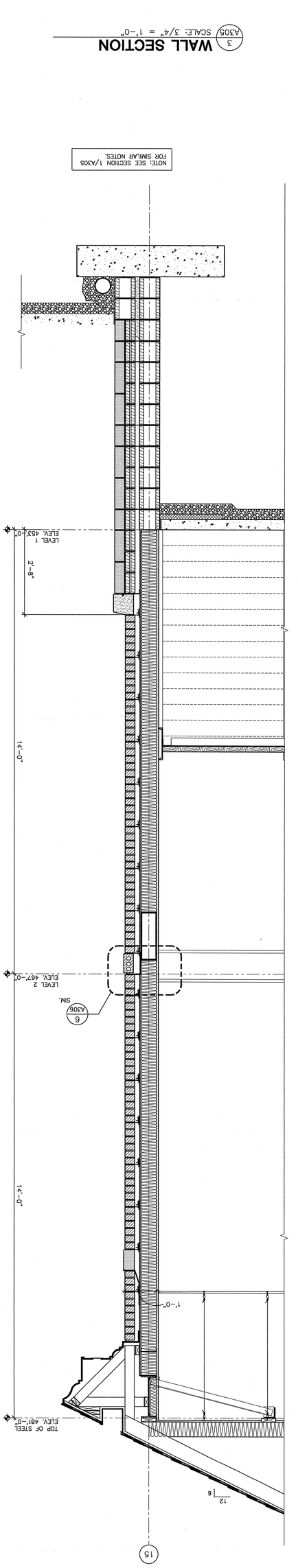
1 WALL SECTION
A305 SCALE: 3/4" = 1'-0"

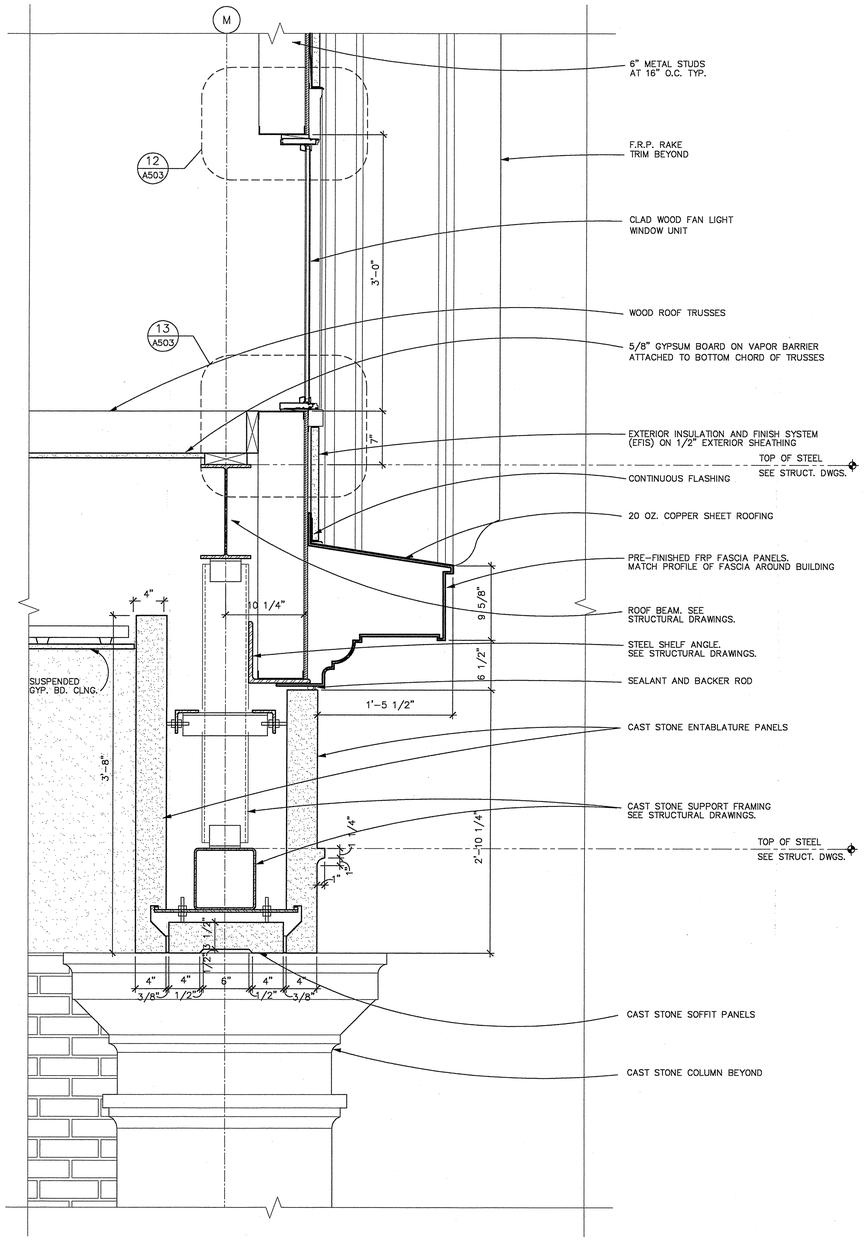


2 WALL SECTION
A305 SCALE: 3/4" = 1'-0"

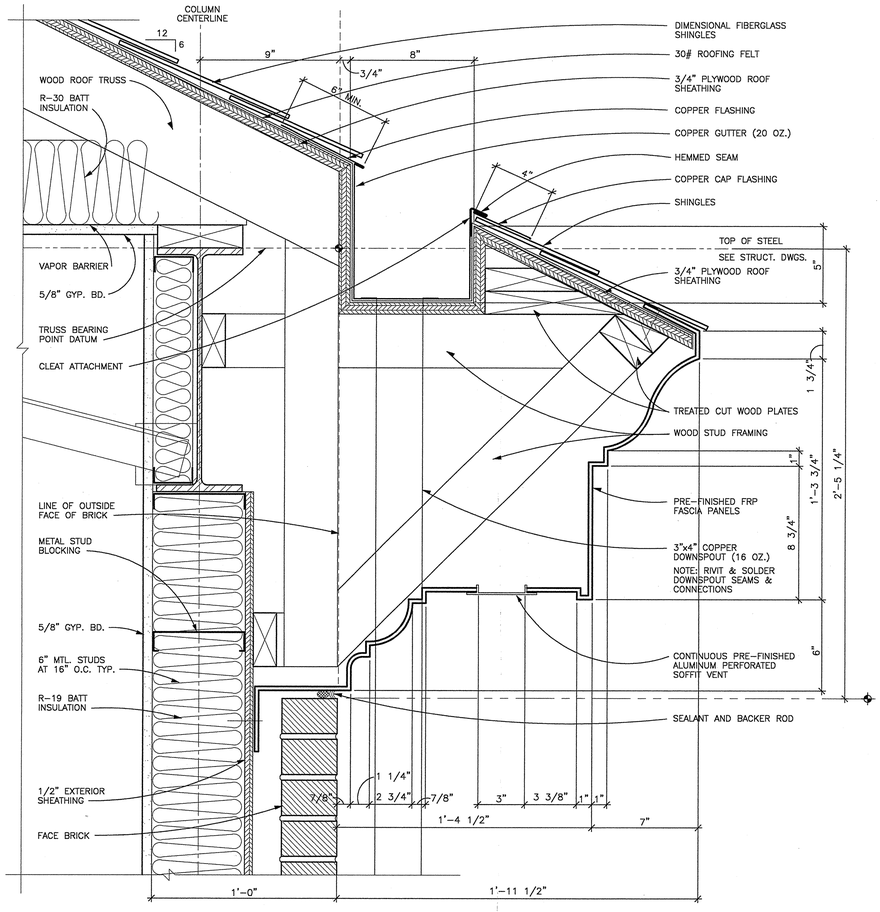


3 WALL SECTION
A305 SCALE: 3/4" = 1'-0"

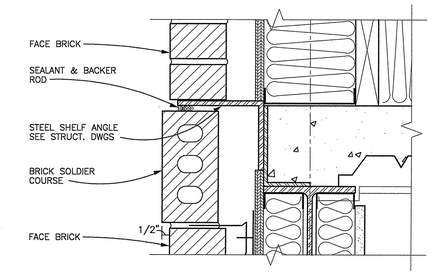




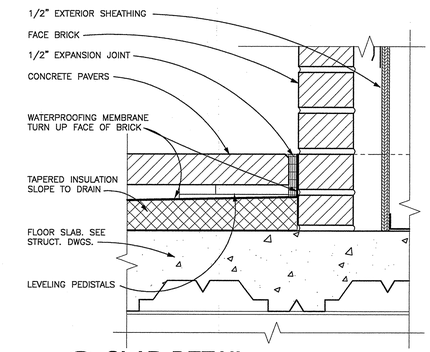
1 A306 **ENTABLATURE DETAIL**
SCALE: 1 1/2" = 1'-0"



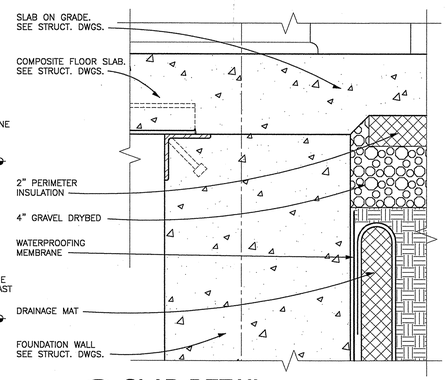
4 A306 **FASCIA DETAIL**
SCALE: 3" = 1'-0"



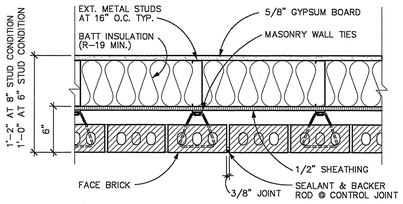
6 A306 **SHELF ANGLE DETAIL**
SCALE: 3" = 1'-0"



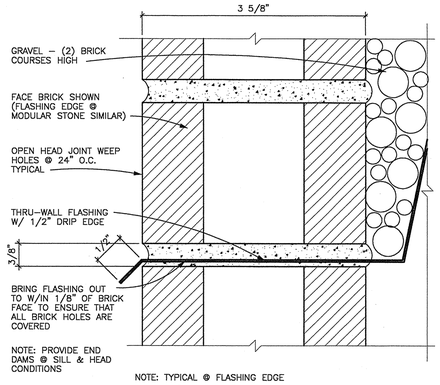
7 A306 **SLAB DETAIL**
SCALE: 3" = 1'-0"



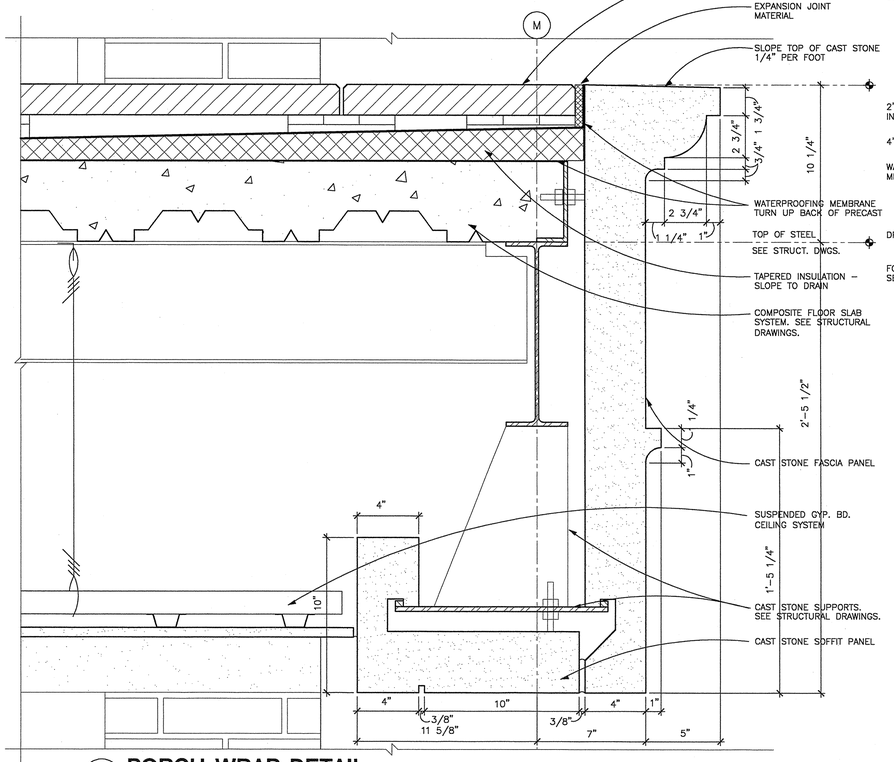
8 A306 **SLAB DETAIL**
SCALE: 3" = 1'-0"



2 A306 **CONTROL JOINT (CJ)**
SCALE: 1 1/2" = 1'-0"



3 A306 **FLASHING EDGE**
FULL SCALE



5 A306 **PORCH WRAP DETAIL**
SCALE: 3" = 1'-0"

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5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
EXTERIOR DETAILS

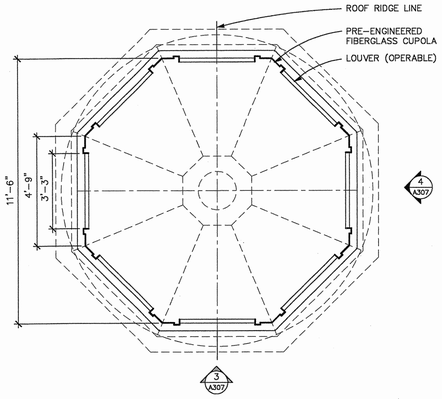
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name

Revisions
No ____ Date ____
Issue Date: April 30, 2002

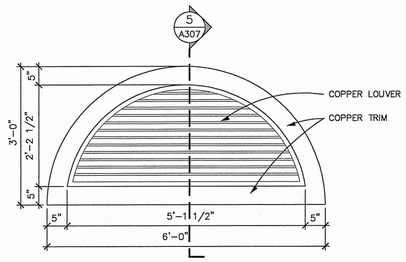
Project Number
511576000

Sheet A306 Of

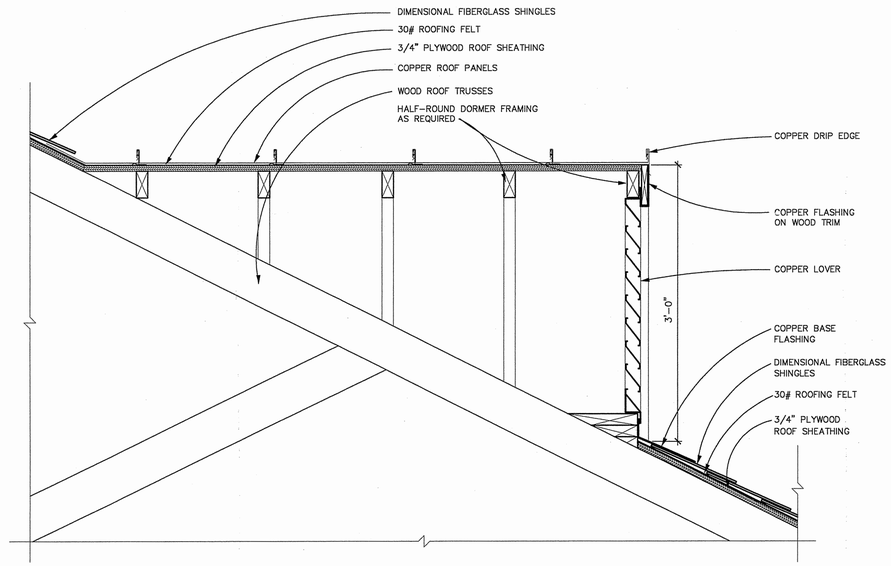
CONSTRUCTION DOCUMENTS



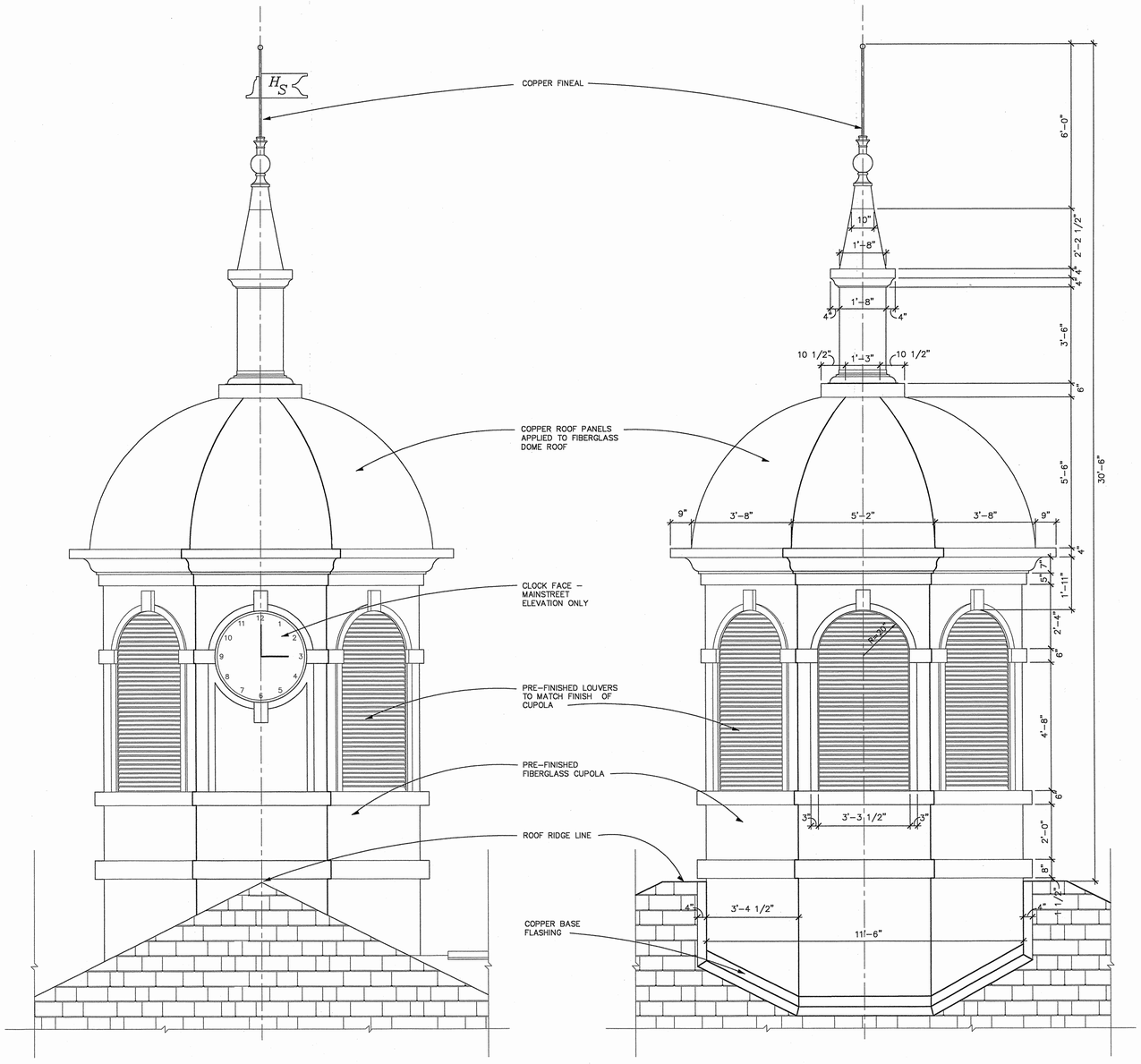
1 A307 CUPOLA PLAN
SCALE: 3/8" = 1'-0"



2 A307 LOUVER ELEVATION
SCALE: 3/4" = 1'-0"

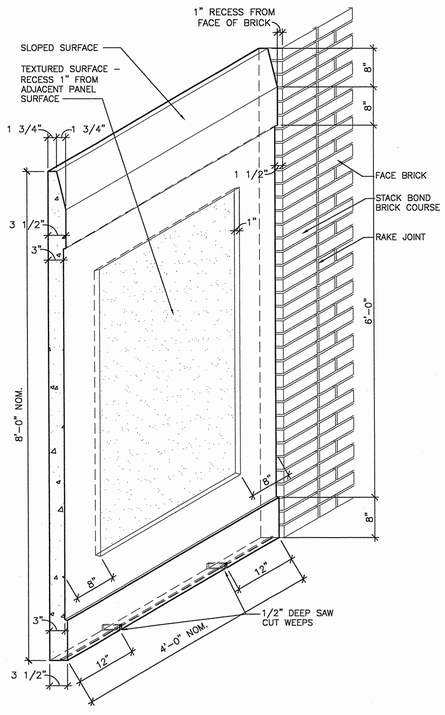


5 A307 LOUVER SECTION
SCALE: 1 1/2" = 1'-0"

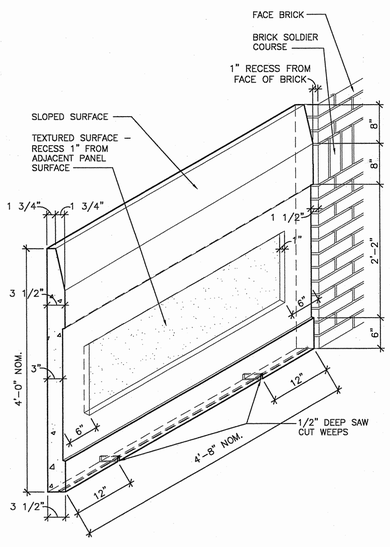


3 A307 CUPOLA ELEVATION
SCALE: 1/2" = 1'-0"

4 A307 CUPOLA ELEVATION
SCALE: 1/2" = 1'-0"



6 A307 CAST STONE PANEL DETAIL
SCALE: 1" = 1'-0"



7 A307 CAST STONE PANEL DETAIL
SCALE: 1" = 1'-0"

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5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
CUPOLA AND LOUVER DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn

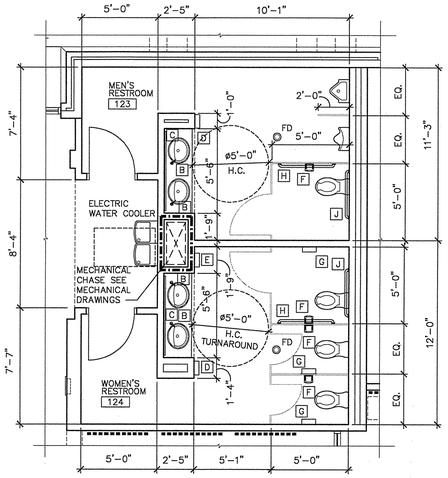
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Issue Date: April 30, 2002

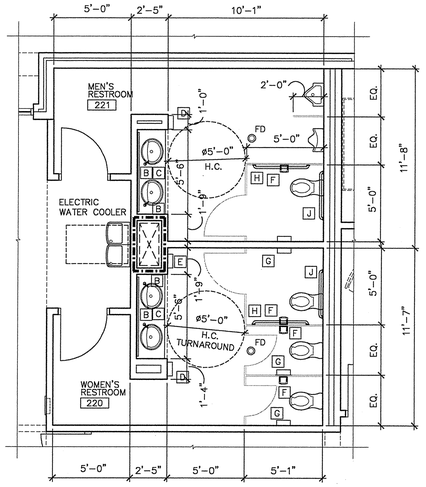
Project Number
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Sheet A307 Of

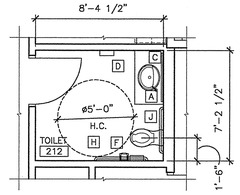
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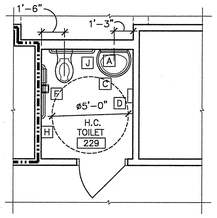
1 A401 PUBLIC RESTROOM - 123 AND 124
SCALE: 1/4" = 1'-0"



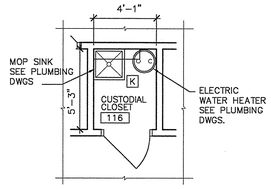
2 A401 PUBLIC RESTROOM - 220 AND 221
SCALE: 1/4" = 1'-0"



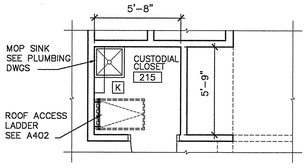
3 A401 STAFF TOILET - 212
SCALE: 1/4" = 1'-0"



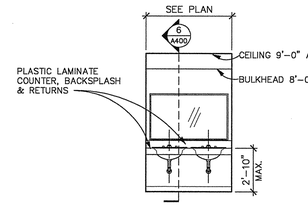
4 A401 STAFF TOILET - 229
SCALE: 1/4" = 1'-0"



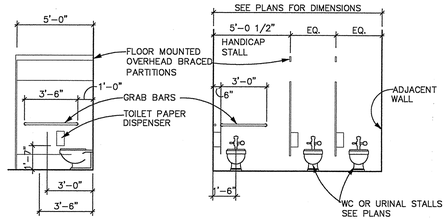
5 A401 CUSTODIAL - 116
SCALE: 1/4" = 1'-0"



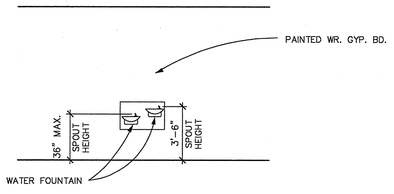
6 A401 CUSTODIAL - 216
SCALE: 1/4" = 1'-0"



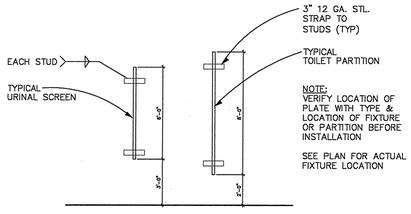
5 A401 ELEVATION
SCALE: 1/4" = 1'-0"



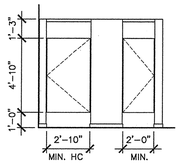
10 A401 TOILET ROOM ELEVATIONS
SCALE: 1/4" = 1'-0"



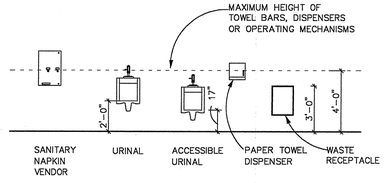
7 A401 TYP. WATER FOUNTAIN
SCALE: 1/4" = 1'-0"



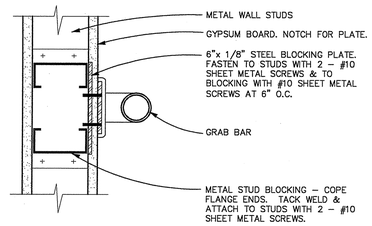
8 A401 PARTITION DETAIL
SCALE: 1/4" = 1'-0"



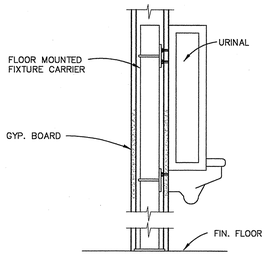
9 A401 TYP. TOILET PARTITIONS
SCALE: 1/4" = 1'-0"



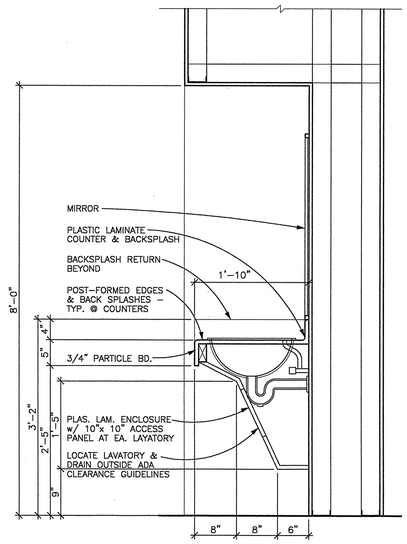
14 A401 ACC. MOUNTING HEIGHT
SCALE: 1/4" = 1'-0"



13 A401 GRAB BAR ANCHOR DETAIL
SCALE: NONE



17 A401 URINAL MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



6 A401 LAV. COUNTER SECTION
SCALE: 1" = 1'-0"

WASHROOM ACCESSORY SCHEDULE

MARK	DESCRIPTION	MFR.	MODEL NUMBER	REMARKS
A	SOAP DISPENSER (WALL MOUNTED)	SEE SPECIFICATIONS – BOBRICK WASHROOM EQUIPMENT SHOWN FOR OTHER APPROVED MANUFACTURERS.	B-40	SURFACE MOUNTED
B	SOAP DISPENSER (IN COUNTER)		B-822	
C	MIRROR (18"x36")		B-290	SURFACE MOUNTED
D	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE		B-39619	SURFACE MOUNTED
E	SANITARY NAPKIN VENDOR		B-282 25	SURFACE MOUNTED
F	TOILET TISSUE DISPENSER		B-2730	
G	SANITARY NAPKIN DISPOSAL		B-354	
H	GRAB BAR (SIDE WALL)		B-6106 x 42	
J	GRAB BAR (REAR WALL)		B-6106 x 36	
K	MOP RACK			

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

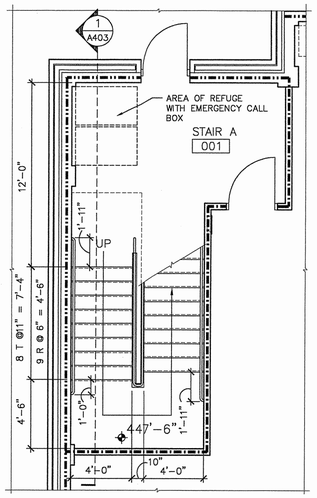
Sheet Title: ENLARGED TOILET PLANS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn: 4.19.02
Drawing File Name: A401.DWG 1=1
Revisions
No ____ Date ____
Issue Date: April 30, 2002

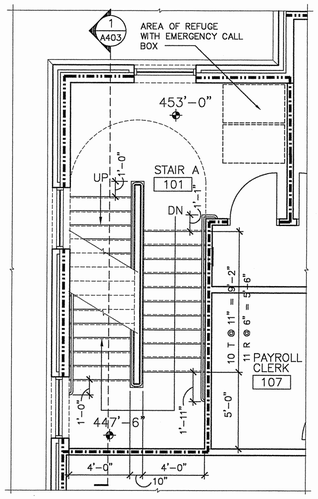
Project Number: 511576000

Sheet: A401 Of

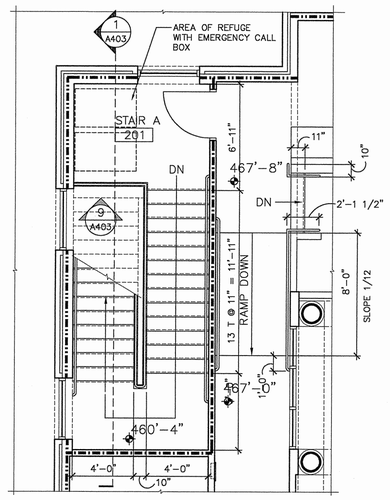
CONSTRUCTION DOCU



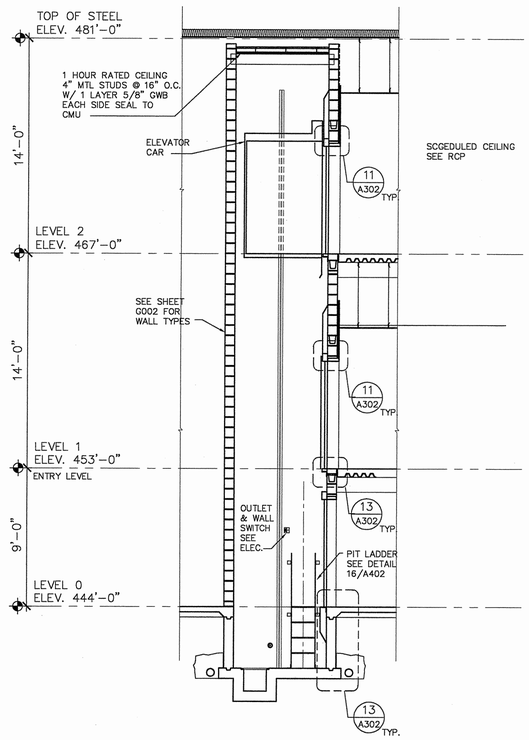
1 / A402 STAIR A - LEVEL ZERO
SCALE: 1/4" = 1'-0"



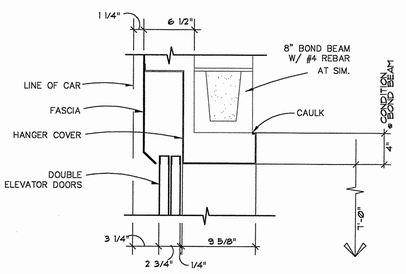
2 / A402 STAIR A - LEVEL ONE
SCALE: 1/4" = 1'-0"



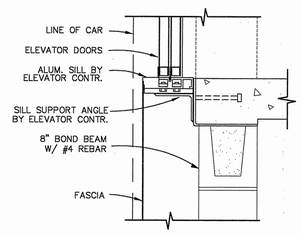
3 / A402 STAIR A - LEVEL TWO
SCALE: 1/4" = 1'-0"

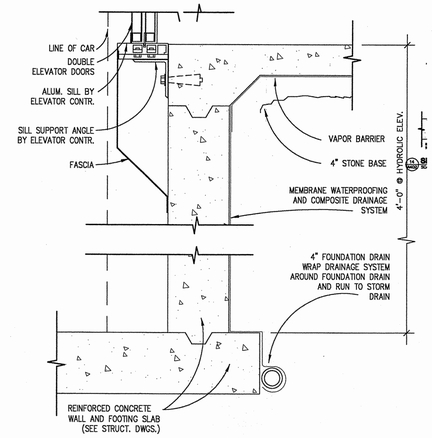


11 / A402 ELEVATOR SECTION
SCALE: 1/4" = 1'-0"



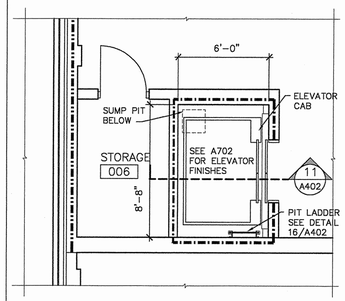
12 / A402 SECTION AT ELEVATOR HEAD
SCALE: 1 1/2" = 1'-0"



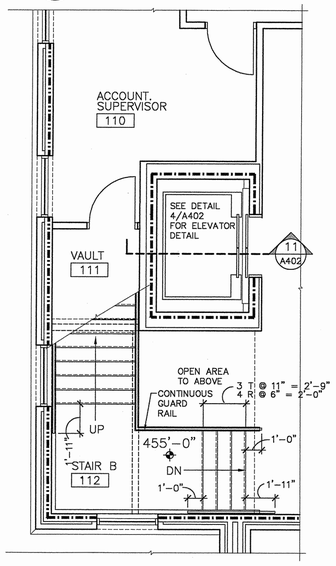


13 / A402 SECTION AT ELEVATOR SILL
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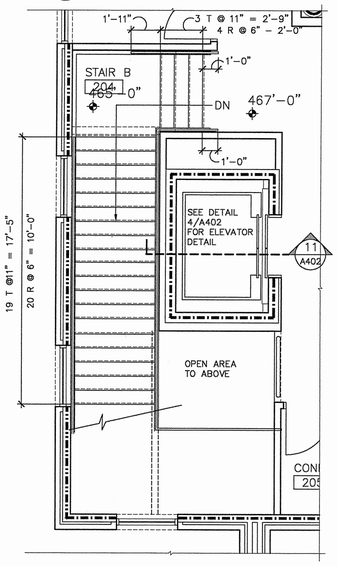
14 / A402 SECTION AT ELEVATOR PIT
SCALE: 1 1/2" = 1'-0"



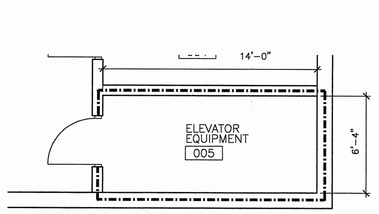
4 / A402 ELEVATOR - LEVEL ZERO
SCALE: 1/4" = 1'-0"



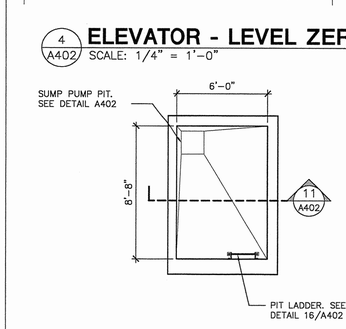
6 / A402 STAIR B - LEVEL ONE
SCALE: 1/4" = 1'-0"



7 / A402 STAIR B - LEVEL TWO
SCALE: 1/4" = 1'-0"

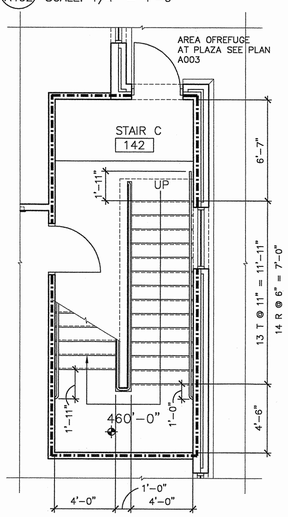


17 / A402 EQUIPMENT ROOM
SCALE: 1/4" = 1'-0"

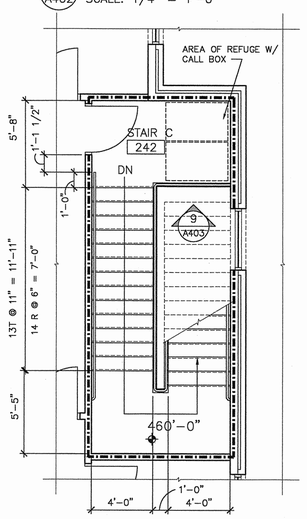


8 / A402 SUMP PIT DETAIL
SCALE: 3/4" = 1'-0"

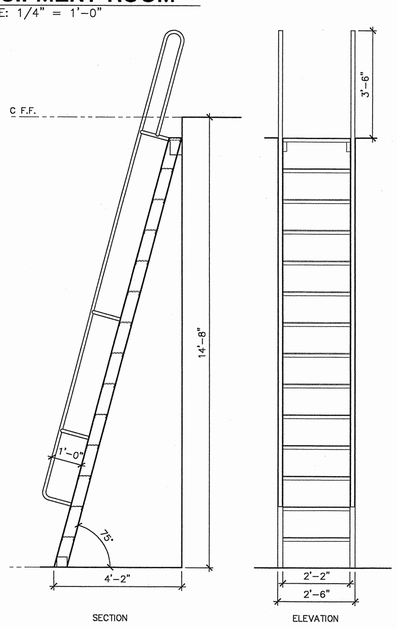
5 / A402 ELEVATOR PIT PLAN
SCALE: 1/4" = 1'-0"



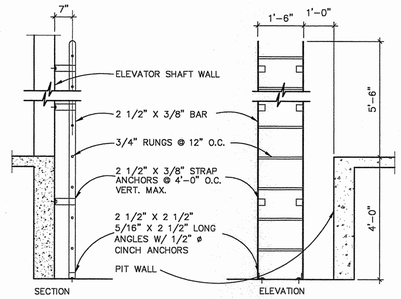
9 / A402 STAIR C - LEVEL ONE
SCALE: 1/4" = 1'-0"



10 / A402 STAIR C - LEVEL TWO
SCALE: 1/4" = 1'-0"



15 / A402 SHIP LADDER DETAIL
SCALE: 1/2" = 1'-0"



NOTE: PROVIDE GALV. FINISH AT ELEVATOR PITS.

16 / A402 PIT LADDER DETAIL
SCALE: 1/2" = 1'-0"

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5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

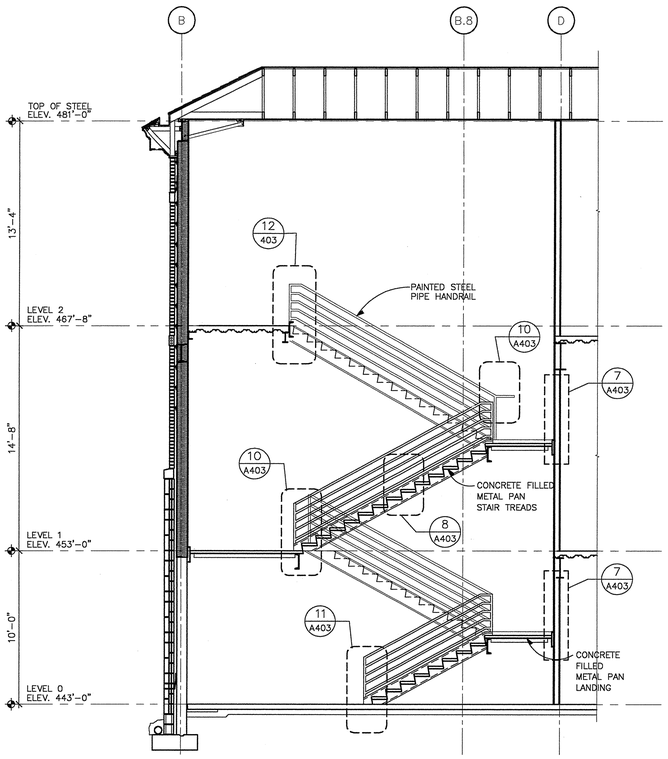
Sheet Title
STAIR AND ELEVATOR DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
4.20.02
Drawing File Name
A402.DWG 1=1
Revisions
No ____ Date ____
Issue Date: April 30, 2002

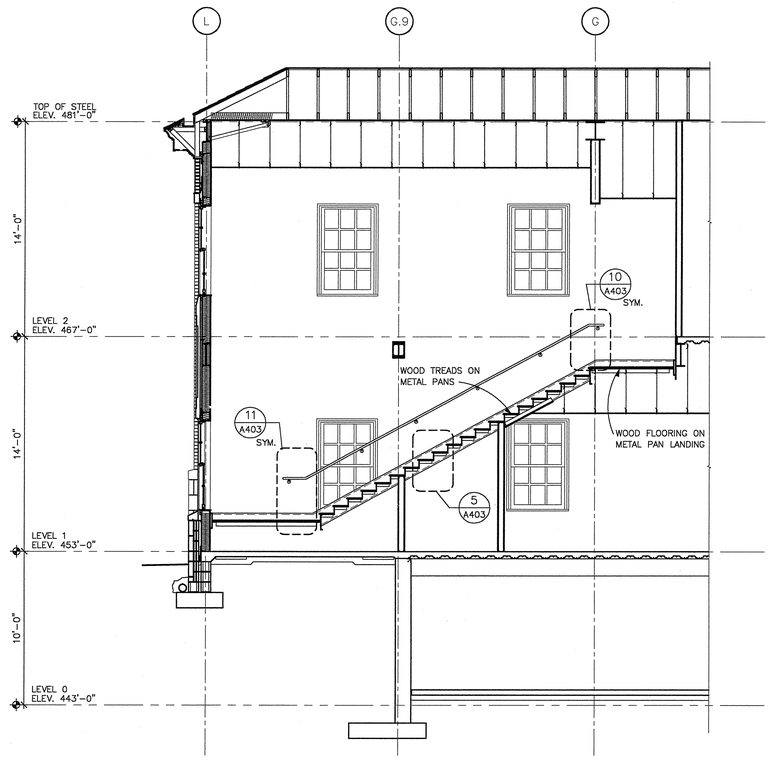
Project Number
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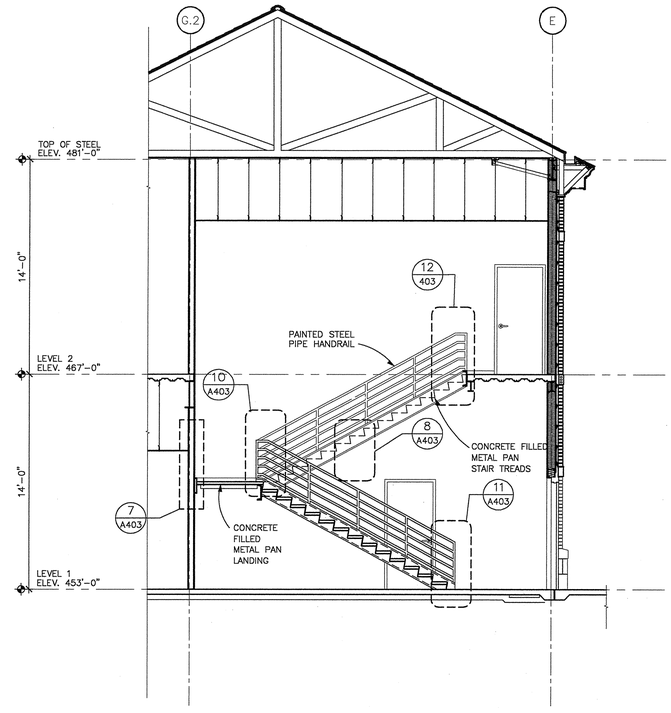
CONSTRUCTION DOCUMENTS



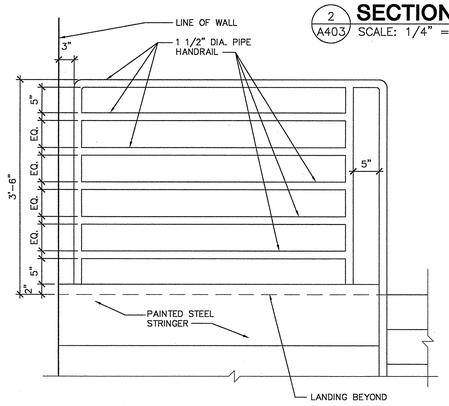
1 A403 **SECTION - STAIR A**
SCALE: 1/4" = 1'-0"



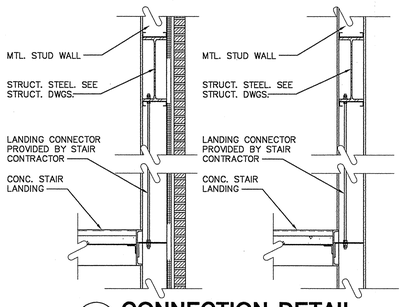
2 A403 **SECTION - STAIR B**
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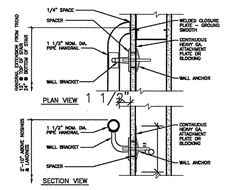
3 A403 **SECTION - STAIR C**
SCALE: 1/4" = 1'-0"



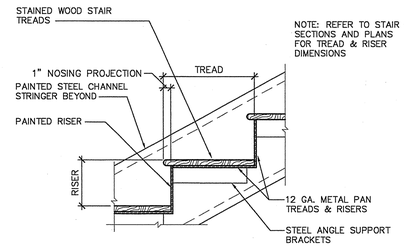
9 A403 **SECTION - STAIR**
SCALE: 1/4" = 1'-0"



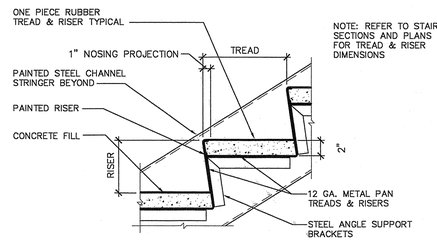
7 A403 **CONNECTION DETAIL**
SCALE: 3/4" = 1'-0"



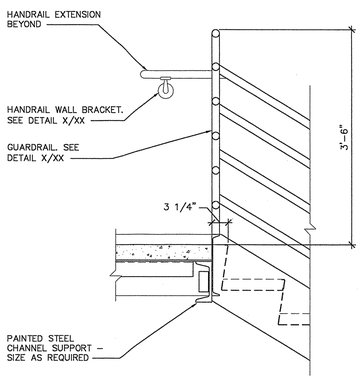
4 A403 **STAIR DETAIL**
SCALE: 1 1/2" = 1'-0"



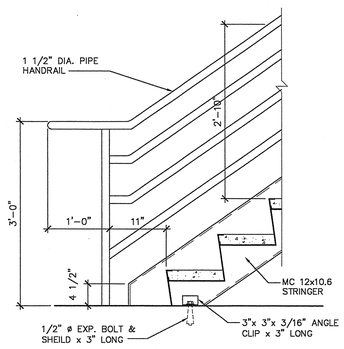
5 A403 **STAIR DETAIL**
SCALE: 1 1/2" = 1'-0"



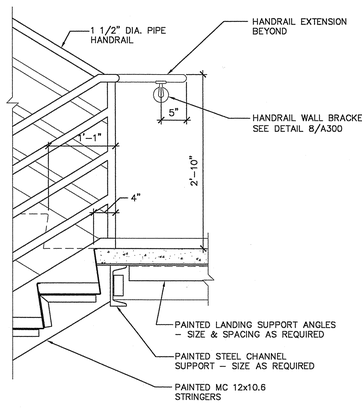
6 A403 **STAIR DETAIL**
SCALE: 1 1/2" = 1'-0"



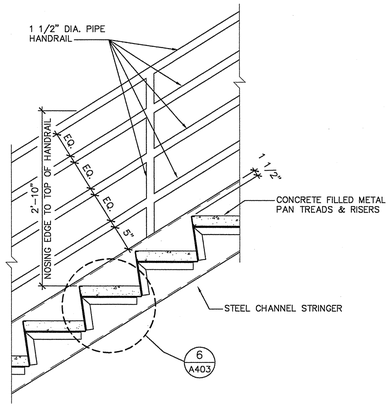
12 A403 **HANDRAIL DETAIL**
SCALE: 1" = 1'-0"



11 A403 **HANDRAIL DETAIL**
SCALE: 1" = 1'-0"



10 A403 **HANDRAIL DETAIL**
SCALE: 1" = 1'-0"



8 A403 **HANDRAIL DETAIL**
SCALE: 1" = 1'-0"

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ROBERT W. BISHOP
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4/30/02
STATE OF CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
STAIR SECTIONS AND DETAILS

Division President
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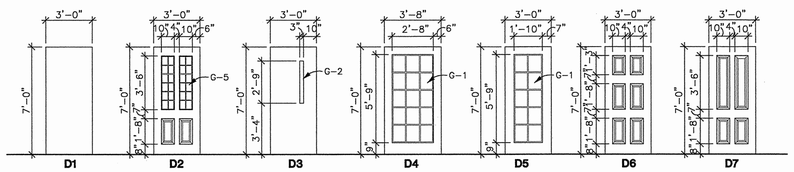
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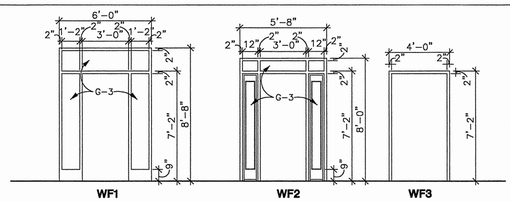
CONSTRUCTION DOCUMENTS

DOOR AND FRAME SCHEDULE

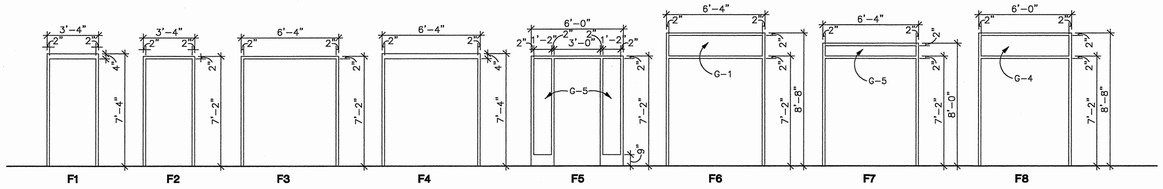
DOOR	ROOM NAME	LABEL	DOOR SIZE W x H x THK	DOOR TYPE	DOOR MATL	FRAMES TYPE	FRAMES MATL	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	H. WARE SET #	REMARKS
LEVEL ZERO												
001A	STAIR A		3'-0"x 7'-0"	D1	HM	F1	HM	9/A501	12/A501	7/A503	–	
001B	STAIR A	1B	3'-0"x 7'-0"	D3	WD	F2	HM	1/A503	2/A503	–	–	
002A	OPEN STORAGE AREA		PAIR 3'-0"x 7'-0"	D1	HM	F4	HM	9/A501	12/A501	7/A503	–	
003A	MECHANICAL ROOM	3/4C	PAIR 3'-0"x 7'-0"	D1	HM	F4	HM	3/A503	4/A503	–	–	
004A	ELECTRICAL ROOM		3'-0"x 7'-0"	D1	HM	F1	HM	3/A503	4/A503	–	–	
005A	ELEVATOR MECHANICAL	3/4C	3'-0"x 7'-0"	D1	HM	F1	HM	3/A503	4/A503	–	–	
006A	STORAGE		3'-0"x 7'-0"	D1	HM	F1	HM	3/A503	4/A503	–	–	
LEVEL ONE												
101A	STAIR A	1B	3'-0"x7'-0"	D3	WD	F2	HM	1/A503	2/A503	–	–	
103A	AST. FINANCE DIRECTOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
104A	WORK AREA		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
105A	FINANCE DIRECTOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
106A	BUDGET ANALYST		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
107A	PAYROLL CLERK		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
109A	FINANCE LOBBY		PAIR 3'-0"x 7'-0"	D2	WD	F7	HM	5/A503	8/A101	–	–	
109B	FINANCE LOBBY		3'-0"x 7'-0"	D1	WD	F2	HM	5/A503	6/A503	–	–	
110A	ACCOUNT SUPERVISOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
111A	VAULT		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
113A	MAIN LOBBY		3'-0"x 7'-0"	D6	WD	WF2	WD	6/A501	6/A100	7/A503	–	
114A	STORAGE		PAIR 3'-0"x 7'-0"	D1	WD	F3	HM	1/A503	2/A503	–	–	
115A	MULTIPURPOSE ROOM		PAIR 3'-0"x 7'-0"	D5	WD	F6	HM	9/A501	11/A501	–	–	GLAZING G-4 AT DOOR & FRAME
115B	MULTIPURPOSE ROOM		PAIR 3'-0"x 7'-0"	D5	HM	F6	WD	1/A503	2/A503	7/A503	–	
116A	KITCHEN		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
117A	ELECTRICAL		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
118A	CUSTODIAL		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	8/A503	–	
119A	MAIL ROOM		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
120A	PLAN REVIEW SUPER.		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
121A	CODE ENFORCE. DIR.		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
122A	OFFICE MANAGER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
123A	CORRIDOR		3'-0"x 7'-0"	D5	HM	WF1	WD	7/A501	11/A501	7/A503	–	
123B	CORRIDOR		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
123C	CORRIDOR		PAIR 3'-0"x 7'-0"	D7	WD	F8	HM	5/A503	6/A503	–	–	
125A	MEN'S RESTROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	9/A503	–	
126A	WOMEN'S RESTROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	9/A503	–	
127A	CONFERENCE 1		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
128A	CONFERENCE 2		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
129A	PLAN/ ENG. LOBBY		3'-0"x 7'-0"	D2	WD	F5	HM	5/A503	6/A503	–	–	
129B	PLAN/ ENG. LOBBY		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
129C	PLAN/ ENG. LOBBY		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
131A	FILE ROOM B		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
132A	FILE ROOM A		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
135A	DEVELOP. COORDINATOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
136A	SENIOR ENGINEER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
137A	TOWN ENGINEER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
138A	ENGINEERING DIR.		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
140A	SENIOR PLANNER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
141A	PLANNING DIR.		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
142A	STAIR C		3'-0"x 7'-0"	D1	HM	F1	HM	7/A501	11/A501	7/A503	–	
142B	STAIR C	1B	3'-0"x 7'-0"	D3	WD	F2	HM	1/A503	2/A503	–	–	
LEVEL TWO												
201A	STAIR A	1B	3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
202A	MAYOR'S OFFICE		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
203A	CORRIDOR		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
205A	CONFERENCE		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
205B	CONFERENCE		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
205C	CONFERENCE		3'-8"x 7'-0"	D4	WD	WF3	WD	6/A501	10/A501	7/A301	–	
205D	CONFERENCE		3'-8"x 7'-0"	D4	WD	WF3	WD	6/A501	10/A501	7/A301	–	
207A	COUNCIL CHAMBERS		PAIR 3'-0"x 7'-0"	D2	WD	F7	HM	5/A503	9/A102	–	–	
208A	A/V ROOM		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
209A	COMM. ROOM		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
210A	LOUNGE		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
211A	CORRIDOR		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
212A	TOILET		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	9/A503	–	
213A	ELECTRICAL		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	8/A503	–	
214A	STORAGE		3'-0"x 7'-0"	D1	WD	F2	HM	5/A503	6/A503	–	–	
215A	CUSTODIAL		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	8/A503	–	
216A	TOWN MANAGER		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
216B	TOWN MANAGER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
217A	ADMIN. ASSIT.		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
218A	INFORMATION OFFICER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
219A	CORRIDOR		PAIR 2'-10"x 7'-0"	D7	WD	F8	HM	5/A503	6/A503	–	–	
219B	CORRIDOR		3'-0"x 7'-0"	D5	HM	WF1	WD	8/A501	11/A501	7/A301	–	
220A	WOMEN'S RESTROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	9/A503	–	
221A	MEN'S RESTROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	9/A503	–	
222A	ECONOMIC DEVELOPER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
223A	MARKETING DIRECTOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
224A	STORAGE		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
225A	ECONOMIC ADMIN.		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
226A	VAULT	1 1/2B	3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
227A	ASST. TOWN MANAGER		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
228A	CORRIDOR		3'-0"x 7'-0"	D7	WD	F2	HM	5/A503	6/A503	–	–	
228B	CORRIDOR		PAIR 3'-0"x 7'-0"	D2	WD	F3	HM	5/A503	6/A503	–	–	
229A	TOILET		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	9/A503	–	
230A	FILE ROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
231A	TOWN CLERK		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
232A	WORK ROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
233A	POLICE ADMIN.		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
234A	POLICE CHIEF		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
235A	RECREATION DIRECTOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
236A	RECREATION ADMIN.		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
238A	HR DIRECTOR		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
239A	STAFF ATTORNEY		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
240A	OPEN OFFICE		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
241A	SERVER ROOM		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
242A	STAIR C	1B	3'-0"x 7'-0"	D3	WD	F2	HM	1/A503	2/A503	–	–	
243A	EXPANSION SPACE		3'-0"x 7'-0"	D2	WD	F2	HM	5/A503	6/A503	–	–	
243B	EXPANSION SPACE		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	
244A	ATTIC ACCESS		3'-0"x 7'-0"	D1	WD	F2	HM	1/A503	2/A503	–	–	



1 A501 DOOR PROFILES
SCALE: 1/4" = 1'-0"



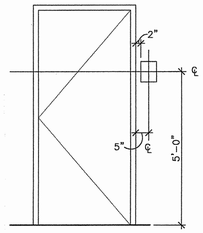
2 A501 CLAD WOOD FRAME PROFILES
SCALE: 1/4" = 1'-0"

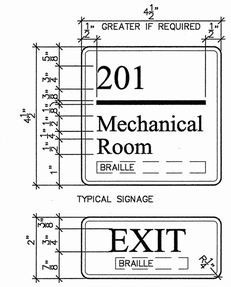


GENERAL DOOR NOTES:

1. ALL FLOOR CHANGES TO OCCUR CENTER UNDER DOOR.
2. DOOR UNDERCUTS TO BE 5/8" TYPICAL.
3. ALL GLAZING IN SWINGING DOORS AND GLAZING ADJACENT TO SWINGING DOORS WHERE THE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR SHALL BE TEMPERED GLASS.
4. MIN. JAMB DIMENSION 4" UNLESS OTHERWISE NOTED.
5. SEE SHEET A502 FOR GLAZING SCHEDULE.

3 A501 H.M. DOOR FRAME PROFILES
SCALE: 1/4" = 1'-0"

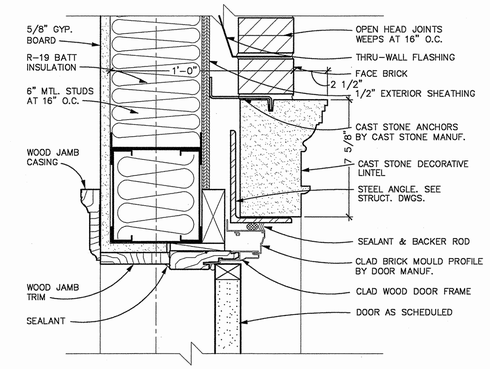




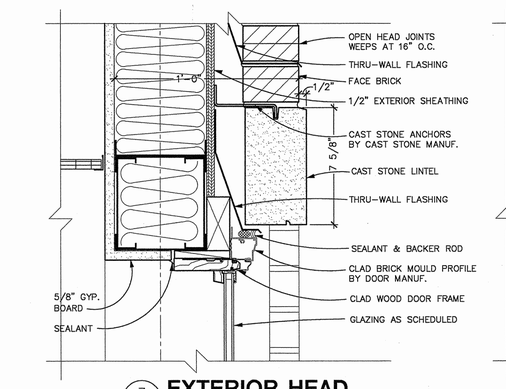
NOTES:
1. MOUNT SIGNS 5'-0" A.F.F., BESIDE DOORS.
2. SUBSTITUTE ROOM NAMES AND NUMBERS SHOWN ON FLOOR PLANS.
3. TEXT FONT SHALL BE TIMES ROMAN.
4. SIGNS TO BE PURCHASED BY OWNER UNDER ALLOWANCES & INSTALLED BY G.C.
5. PROVIDE EXIT SIGNS AS REQUIRED BY NC VOL 1-C.

4 A501 TYPICAL SIGNAGE DETAIL
SCALE: 1/2" = 1'-0"

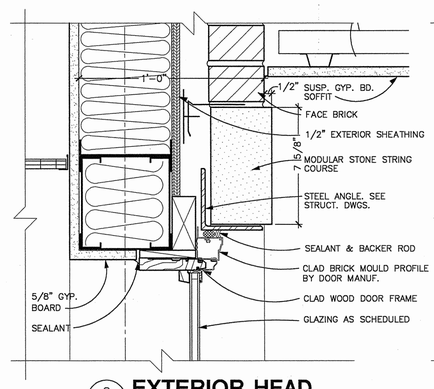
5 A501 DOOR SIGNAGE
SCALE: 6" = 1'-0"



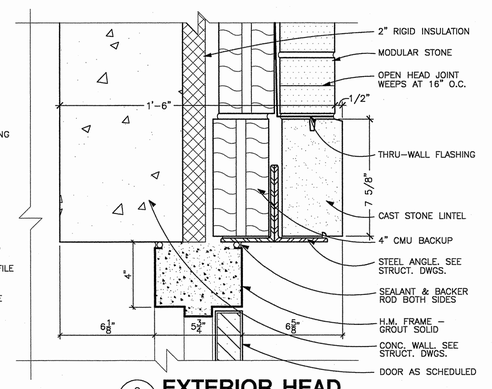
6 A501 EXTERIOR HEAD
SCALE: 3" = 1'-0"



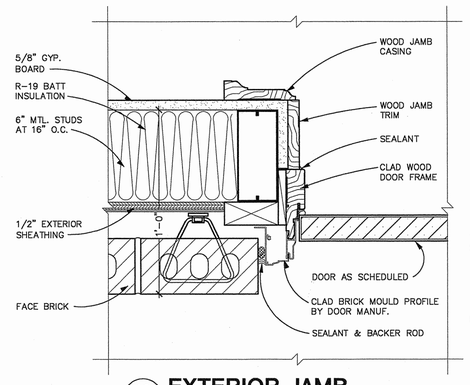
7 A501 EXTERIOR HEAD
SCALE: 3" = 1'-0"



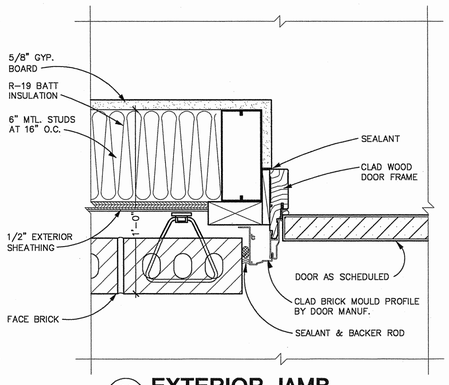
8 A501 EXTERIOR HEAD
SCALE: 3" = 1'-0"



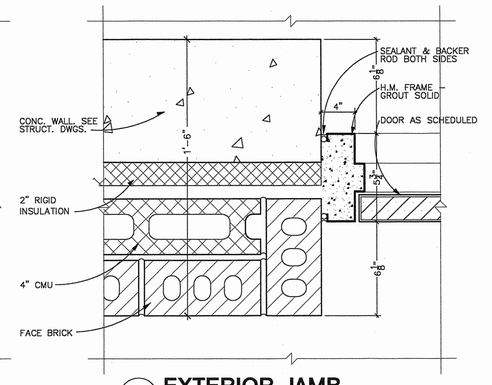
9 A501 EXTERIOR HEAD
SCALE: 3" = 1'-0"



10 A501 EXTERIOR JAMB
SCALE: 3" = 1'-0"



11 A501 EXTERIOR JAMB
SCALE: 3" = 1'-0"



12 A501 EXTERIOR JAMB
SCALE: 3" = 1'-0"

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

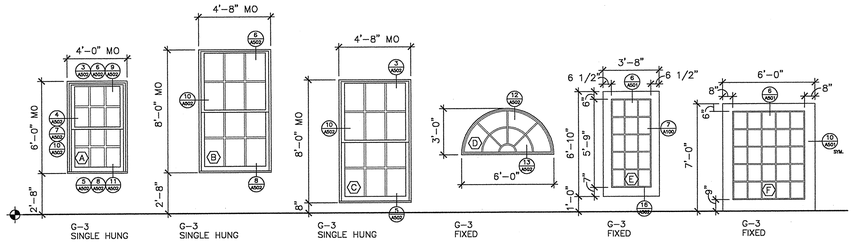
Sheet Title
DOOR SCHEDULE AND DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

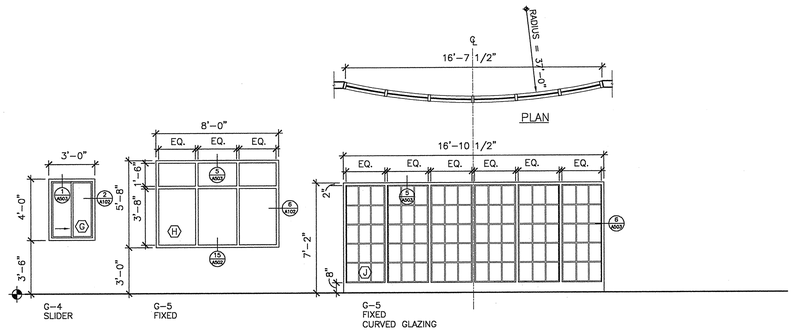
Project Number
511576000

Sheet Of
A501

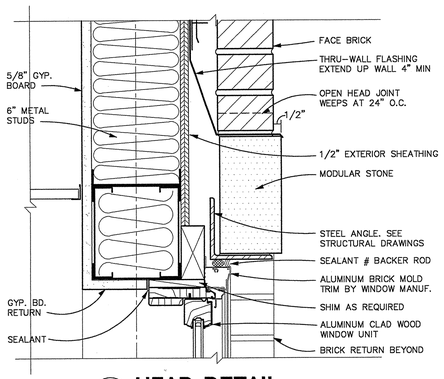
CONSTRUCTION DOCUMENTS



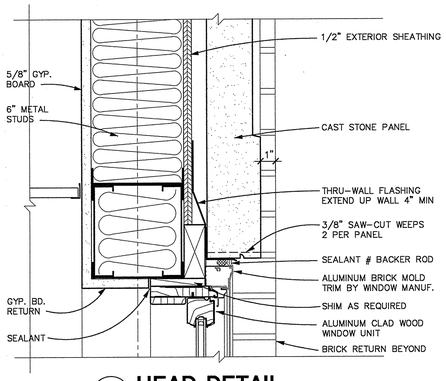
1 A502 CLAD WINDOW ELEVATIONS
SCALE: 1/4" = 1'-0"



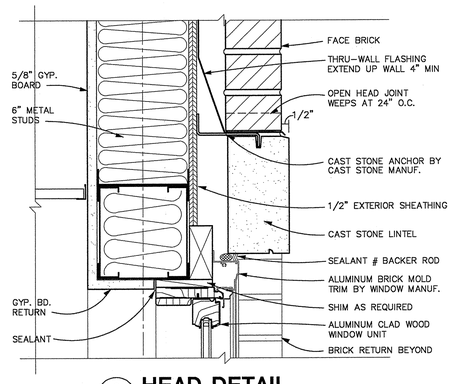
2 A502 H.M. WINDOW ELEVATIONS
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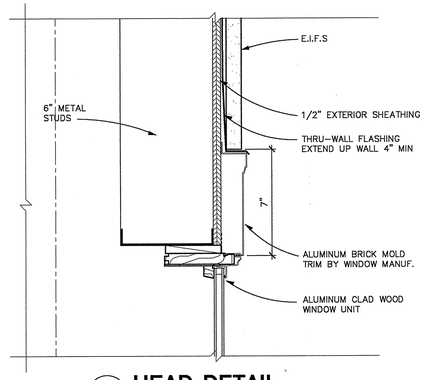
3 A502 HEAD DETAIL
SCALE: 3" = 1'-0"



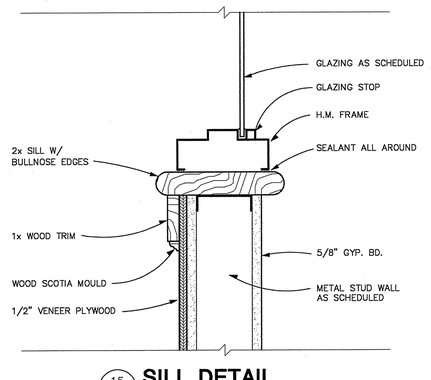
6 A502 HEAD DETAIL
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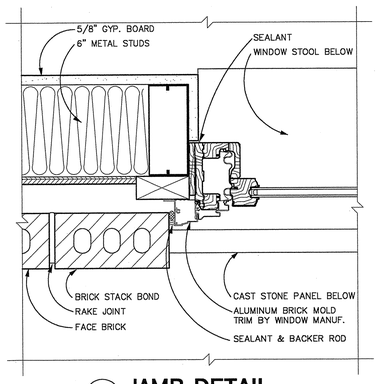
9 A502 HEAD DETAIL
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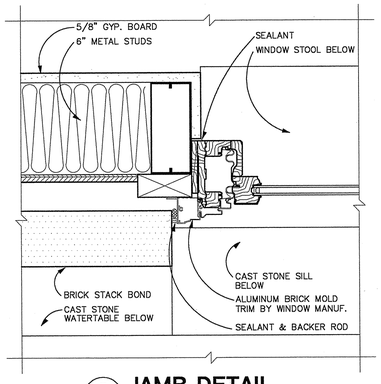
12 A502 HEAD DETAIL
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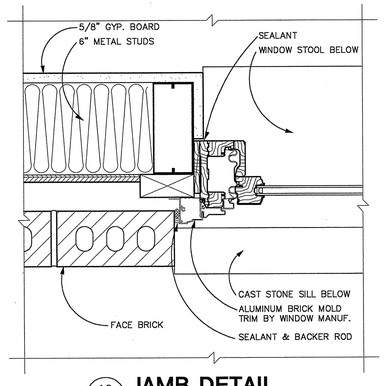
15 A502 SILL DETAIL
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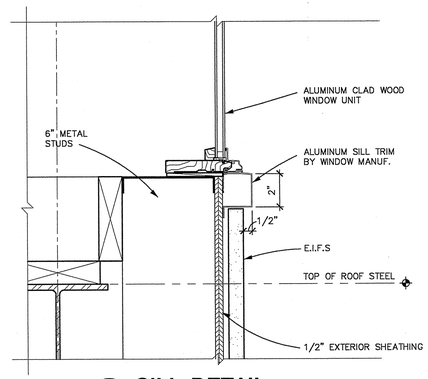
4 A502 JAMB DETAIL
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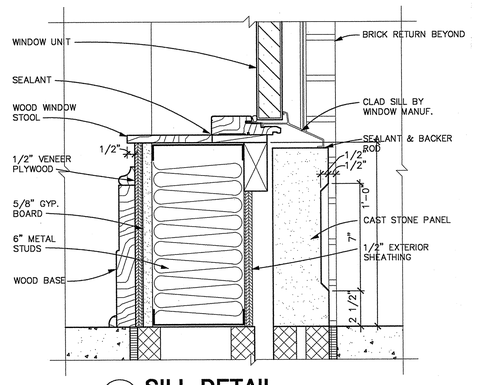
7 A502 JAMB DETAIL
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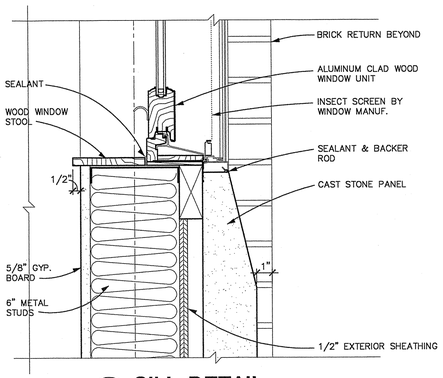
10 A502 JAMB DETAIL
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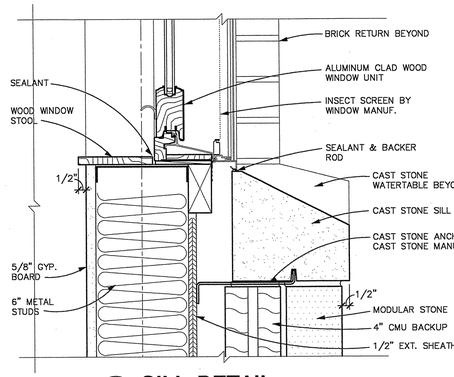
13 A502 SILL DETAIL
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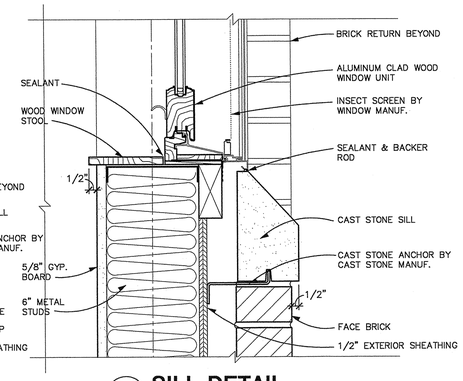
16 A502 SILL DETAIL
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5 A502 SILL DETAIL
SCALE: 3" = 1'-0"



8 A502 SILL DETAIL
SCALE: 3" = 1'-0"



11 A502 SILL DETAIL
SCALE: 3" = 1'-0"

GLASS TYPES

NOTE	GLASS TYPE	REMARKS
G-1	5/8" INSULATED LOW E GLASS	
G-2	1/4" CLEAR WIRE GLASS	
G-3	MULTI-LAYER INSULATED LOW E GLASS	
G-4	1/4" CLEAR FLOAT GLASS	
G-5	1/4" DECORATIVE FLOAT GLASS	

NOTES

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ROBERT W. BISHOP REGISTERED ARCHITECT 5781 NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

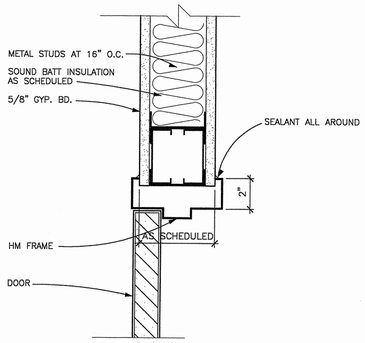
Sheet Title: WINDOW SCHEDULE AND DETAILS

Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:
Revisions:
No ____ Date ____
Issue Date: April 30, 2002

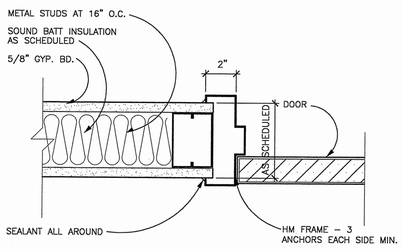
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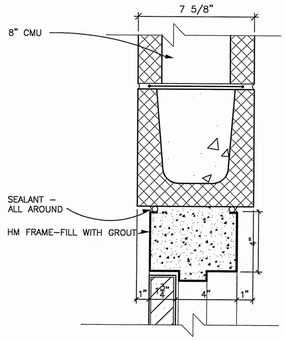
CONSTRUCTION DOCUMENT



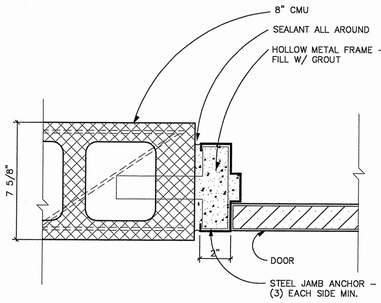
1 A503 **INTERIOR HEAD - STUDS**
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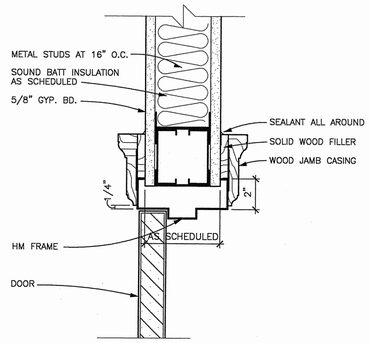
2 A503 **INTERIOR JAMB - STUDS**
SCALE: 3" = 1'-0"



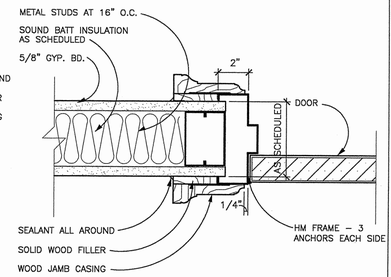
3 A503 **INTERIOR HEAD - CMU**
SCALE: 3" = 1'-0"



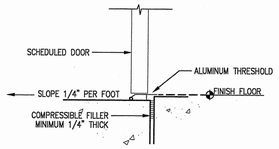
4 A503 **INTERIOR JAMB - CMU**
SCALE: 3" = 1'-0"



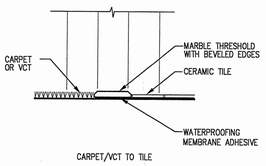
5 A503 **INTERIOR HEAD - STUDS**
SCALE: 3" = 1'-0"



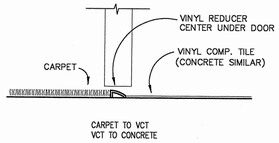
6 A503 **INTERIOR JAMB - STUDS**
SCALE: 3" = 1'-0"



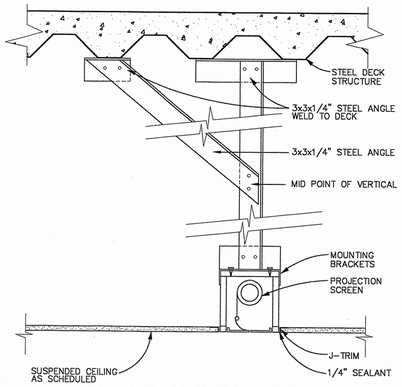
7 A503 **ALUMINUM THRESHOLD**
SCALE: 3" = 1'-0"



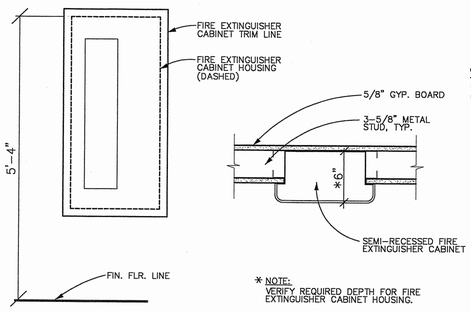
9 A503 **THRESHOLD @ CERAMIC TILE**
SCALE: 3" = 1'-0"



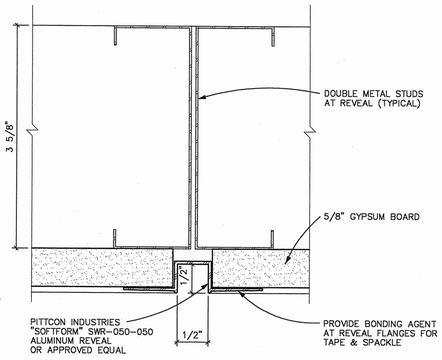
8 A503 **THRESHOLD @ VCT**
SCALE: 3" = 1'-0"



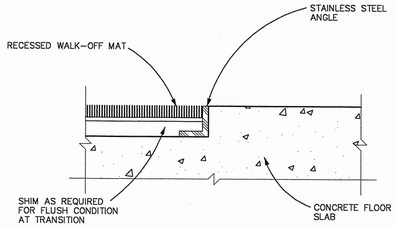
19 A503 **PROJECTION SCREEN**
SCALE: 1 1/2" = 1'-0"



20 A503 **FIRE EXTIGUISHER CABINET**
SCALE: 1 1/2" = 1'-0"



21 A503 **REVEAL**
FULL SCALE



22 A503 **ENTRY MAT DETAIL**
FULL SCALE

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Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
DOOR DETAILS
INTERIOR DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name

Revisions
No ____ Date ____
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No ____ Date ____
No ____ Date ____
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet Of
A503

ROOM FINISH SCHEDULE

ROOM NUM	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS SOUTH	WALLS EAST	WALLS WEST	CEILING	REMARKS
BASEMENT									
001	STAIR A	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	–	–
002	STORAGE	C.01	RB.01	PT.01	PT.01	PT.01	PT.01	OS	ALL WALLS IN ROOM PT.01
003	MECHANICAL ROOM	C.01	–	–	–	–	–	–	–
004	ELECTRICAL ROOM	C.01	–	–	–	–	–	–	–
005	ELEV. EQUIPMENT	C.01	–	–	–	–	–	–	–
006	STORAGE	C.01	–	–	–	–	–	–	–
FIRST FLOOR									
101	STAIR A	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	–	–
102	NOT USED	–	–	–	–	–	–	–	–
103	ASST. FINANCE DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
104	WORK ROOM	VCT.01/VCT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
105	FINANCE DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
106	BUDGET ANALYST	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
107	PAYROLL CLERK	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
108	FINANCE OPEN OFFICE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.03	ACT.01	–
109	FINANCE LOBBY	VCT.01/VCT.02	RB.01	PT.02	PT.01	PT.01	PT.01	ACT.02	–
110	ACCOUNT SUPERVISOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
111	FINANCE VAULT	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	PT.01	–
112	STAIR B	WD.01	WD.01	**	**	**	**	**	** SEE NOTE 3
113	MAIN LOBBY	TZ.01/TZ.02	TZ.01	WD/VWC	WD/VWC	WD/VWC	WD/VWC	GYP.01	SEE INTERIOR DETAILS
114	STORAGE	VCT.03	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
115	MULTIPURPOSE ROOM	VCT.03/.04	RB.01	PT.07.08	PT.07.08	PT.07.08	PT.07.08	**	SEE NOTE 4
116	KITCHEN	VCT.03	RB.01	PT.02	PT.02	PT.02	PT.02	ACT.01	–
117	ELECTRICAL	C.01	NB.01	PT.01	PT.01	PT.01	PT.01	OS.01	–
118	JANITOR CLOSET	C.01	NB.01	PT.02	PT.02	PT.02	PT.02	OS.01	–
119	MAIL ROOM	VCT.01/.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
120	PLAN REVIEW SUPERVISOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
121	CODE ENFORCE. DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
122	OFFICE MANAGER	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
123	CORRIDOR	TZ.01/.02	WB.01	PT.07.08	PT.07.08	PT.07.08	PT.07.08	**	** SEE RCP
125	MEN'S RESTROOM	CT.01/02	CB.01	**	**	**	**	GYP.01	** SEE SHEET A401
126	WOMEN'S RESTROOM	CT.01/02	CB.01	**	**	**	**	GYP.01	** SEE SHEET A401
127	CONFERENCE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
128	CONFERENCE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
129	PLAN/ ENG. LOBBY	VCT.01/02	RB.01	PT.07.08	PT.07.08	PT.07.08	PT.07.08	ACT.01	–
130	OPEN OFFICE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
131	FILE ROOM B	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
132	FILE ROOM A	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
133	WORK ROOM	VCT.01/02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
134	OPEN OFFICE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
135	DEVELOP COORDINATOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
136	SENIOR ENGINEER	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
137	TOWN ENGINEER	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
138	ENGINEERING DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
140	SENIOR PLANNER	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
141	PLANNING DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
142	STAIR C	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	–	–
SECOND FLOOR									
201	STAIR A	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	GYP.01	–
202	MAYOR'S OFFICE	CPT.02	WD.01	**	**	**	**	ACT.01	** SEE INTERIOR DETAILS
203	CORRIDOR	CPT.01	WD.01	**	**	**	**	ACT.01	** SEE INTERIOR DETAILS
204	STAIR B	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
205	CONFERENCE	CPT.02	WD.01	VWC.01	VWC.01	VWC.01	VWC.01	**	** SEE RCP
206	UPPER LOBBY	TR.01/02	WD.01	**	**	**	**	GYP.01	** SEE INTERIOR DETAILS
207	TOWN COUNCIL CHAMBERS	CPT.03/ WD.01	WD.01	**	**	**	**	GPY.01	** SEE INTERIOR DETAILS
208	A/V ROOM	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	OS.01	–
209	COMM. ROOM	CPT.02	WD.01	PT.01	PT.01	PT.01	VWC.01	ACT.01	–
210	LOUNGE	VCT.01/02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
211	CORRIDOR	CPT.01	WD.01	WD/VWC	WD/VWC	WD/VWC	WD/VWC	ACT.01	** SEE NOTE 3
212	TOILET	CT.01	CB.01	VWC.01	VWC.01	VWC.01	VWC.01	GYP.01	–
213	ELECTRICAL	C.01	N/A	PT01	PT.01	PT.01	PT.01	OS.01	–
214	STORAGE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
215	JANITOR CLOSET	C.01	N/A	PT.01	PT.01	PT.01	PT.01	OS.01	–
216	TOWN MANAGER	CPT.02	WD.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
217	ADMIN. ASSISTANT	CPT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
218	INFORMATION OFFICER	CPT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
219	CORRIDOR	VCT.01/.02	WD.01	PT.07.08	PT.07.08	PT.07.08	PT.07.08	**	** SEE RCP
220	WOMEN'S RESTROOM	CT.01/CT.02	CB.01	**	**	**	**	GYP.01	** SEE NOTE 3
221	MEN'S RESTROOM	CT.01/CT.02	CB.01	**	**	**	**	GYP.01	** SEE NOTE 3
222	ECONOMIC DEVELOPER	CPT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
223	MARKETING DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
224	STORAGE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
225	ECONOMIC ADMIN.	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
226	VAULT	VCT.01	CPT.01	PT.01	PT.01	PT.01	PT.01	GYP.01	2 HR. CEILING
227	ASST. TOWN MANAGER	CPT.02	WD.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
228	CORRIDOR	CPT.02/VCT.01/VCT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
229	TOILET	CT.01	CB.01	VWC.01	VWC.01	VWC.01	VWC.01	GYP.01	–
230	FILE ROOM	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
231	TOWN CLERK	CPT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
232	WORK ROOM	VCT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
233	POLICE ADMIN.	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
234	POLICE CHIEF	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
235	RECREATION DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
236	RECREATION ADMIN.	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
237	DEPUTY TOWN CLERK	CPT.02	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
238	HUMAN RES. DIRECTOR	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
239	STAFF ATTORNEY	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
240	OPEN OFFICE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	SEE NOTE 2
241	SERVER ROOM	VCT.03	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	–
242	STAIR C	VCT.01/02	RB.01	PT.01	PT.01	PT.01	PT.01	GYP.01	–
243	EXPANSION SPACE	CPT.01	RB.01	PT.01	PT.01	PT.01	PT.01	ACT.01	SEE NOTE 2
244	ATTIC ACCESS	C.01	NB.01	PT.01	PT.01	PT.01	PT.01	OS.01	–

FINISH LEGEND

FLOORING

CONCRETE

C.01 SEALED CONCRETE

CARPET FLOORING

CPT.01 SHAW CONTRACT
WILDCREEK II 50460
COLOR: SEDIMENT

CPT.02 SHAW CONTRACT
HEDGEGEROW 50867
COLOR: LOCUST

CPT.03 SHAW CONTRACT
FORM 50883
COLOR: XXXXXXXX

WOOD FLOORING

WD.01 GREEN WORLD
MANUFACTOR
COLOR

TILE FLOORING

CT.01 XXX
MANUFACTOR
COLOR

CT.02 XXX
MANUFACTOR
COLOR

VINYL FLOORING

VCT.01 MANNINGTON COMMERCIAL
BRUSHWORK
COLOR: MARS BLACK

VCT.02 MANNINGTON COMMERCIAL
BRUSHWORK
COLOR: VENETIAN SILK

VCT.03 MANNINGTON COMMERCIAL
BRUSHWORK
COLOR: AS SELECTED BY ARCHITECT

TERRAZZO

TZ.01 FIELD TERRAZZO
XXX
COLOR: XXX

TZ.02 ACCENT TERRAZZO
XXX
COLOR: XXX

BASE

RB.01 RUBBER BASE
MANUFACTOR
COLOR

WB.01 WOOD BASE
MANUFACTOR
COLOR

CB.01 CERMANIC BASE
MANUFACTOR
COLOR

TB.01 TERRAZZO BASE
MANUFACTOR
COLOR

NB.01 NO BASE

STAIR TREADS

WT.01 WOOD TREADS
MANUFACTOR
COLOR

RT.01 RUBBER TREADS
MANUFACTOR
COLOR

CT.01 CARPET TREADS
MANUFACTOR
COLOR

PLASTIC LAMINATE

PL.01 COUNTERTOPS
MANUFACTOR
COLOR

PL.02 XXX
MANUFACTOR
COLOR

WALL

PAINT

PT.01 FIELD PAINT
MANUFACTURE
FINISH
COLOR

PT.02 FIELD EPOXY PAINT
MANUFACTURE
FINISH
COLOR

PT.03 ACCENT PAIN
MANUFACTURE
FINISH
COLOR

PT.04 ACCENT PAINT
MANUFACTURE
FINISH
COLOR

PT.05 CEILING PAINT
MANUFACTURE
FINISH
COLOR

PT.06 H.M FRAME PAINT
MANUFACTURE
FINISH
COLOR

PT.07 ZOLATONE
MANUFACTURE
FINISH
COLOR

PT.08 ZOLATONE
MANUFACTURE
FINISH
COLOR

PT.09 ZOLATONE
MANUFACTURE
FINISH
COLOR

WOOD STAIN

ST.01 FIELD STAIN
MANUFACTURE
COLOR

ST.02 TRIM STAIN
MANUFACTURE
COLOR

ST.03 POLYURITANE COAT
MANUFACTURE
COLOR

WALL COVERING

VWC.01 COMMON AREAS
MANUFACTURE
COLOR

VWC.02 RESTROOMS
MANUFACTURE
COLOR

VWC.03 CONFERENCE ROOM
MANUFACTURE
COLOR

CERAMIC TILE

CT.01 FIELD TILE
MANUFACTURE
COLOR

CT.02 ACCENT TILE
MANUFACTURE
COLOR

WOOD WAINSCOT

WD.01 FIELD PANELS
MANUFACTURE
COLOR

CEILING

ACOUSTICAL CEILING TILE

ACT.01 XXX
XXX
COLOR: XXX

ACT.02 XXX
XXX
COLOR: XXX

ACT.03 XXX
XXX
COLOR: XXX

SUSPENDED GYPSUM BOARD

GYP.01 XXX
XXX
COLOR: XXX

OPEN STRUCTURE

OS.01 XXX
XXX
COLOR: XXX

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Project: Holly Springs Town Hall
Holly Springs, North Carolina

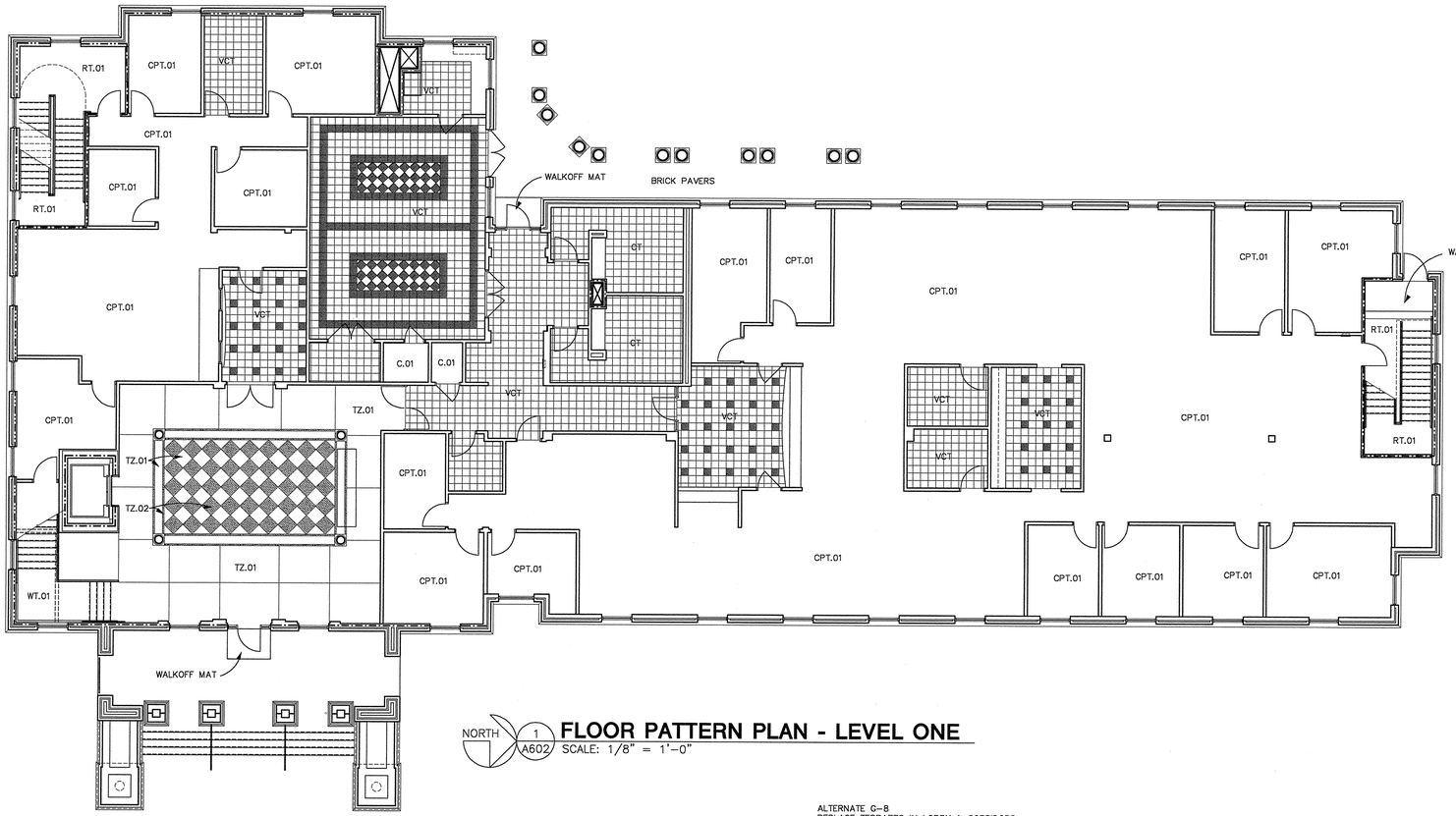
Sheet Title: FINISH SCHEDULE

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

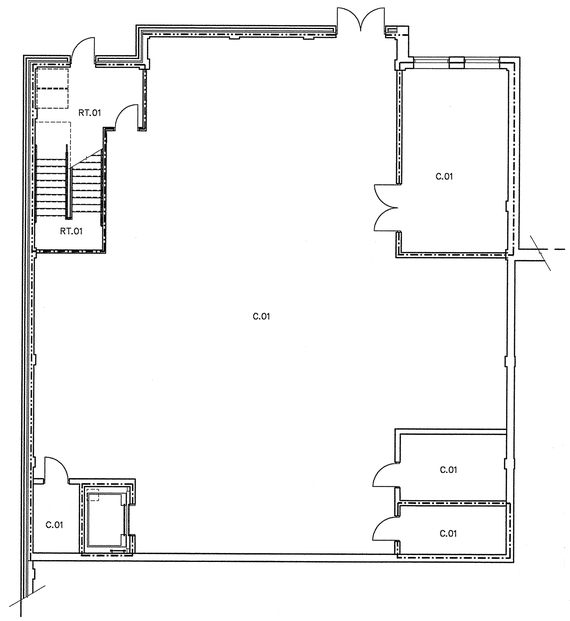
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Sheet A601 Of

CONSTRUCTION DOCUMENTS

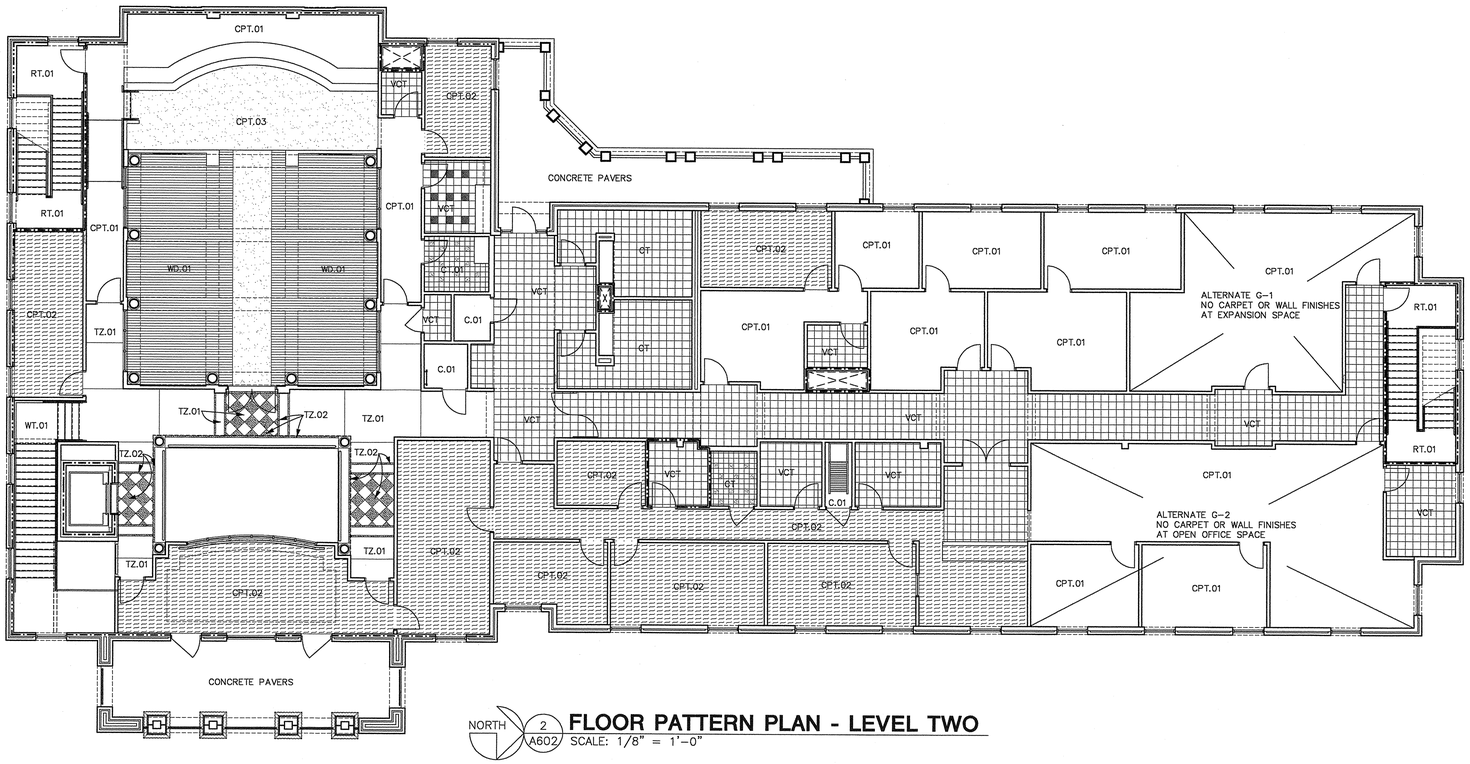


NORTH 1/A602 **FLOOR PATTERN PLAN - LEVEL ONE**
SCALE: 1/8" = 1'-0"



NORTH 3/A602 **FLOOR PATTERN PLAN - LEVEL ZERO**
SCALE: 1/8" = 1'-0"

ALTERNATE G-8
REPLACE TERRAZZO IN LOBBY & CORRIDORS
TO PORCELIN TILE BY CROSSVILLE CRONOS SERIES
ARCHITECT TO SELECT FROM FULL LINE OF COLORS



NORTH 2/A602 **FLOOR PATTERN PLAN - LEVEL TWO**
SCALE: 1/8" = 1'-0"

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NORTH CAROLINA

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: FLOOR PATTERN PLANS

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Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name

Revisions
No ____ Date ____
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Issue Date: April 30, 2002

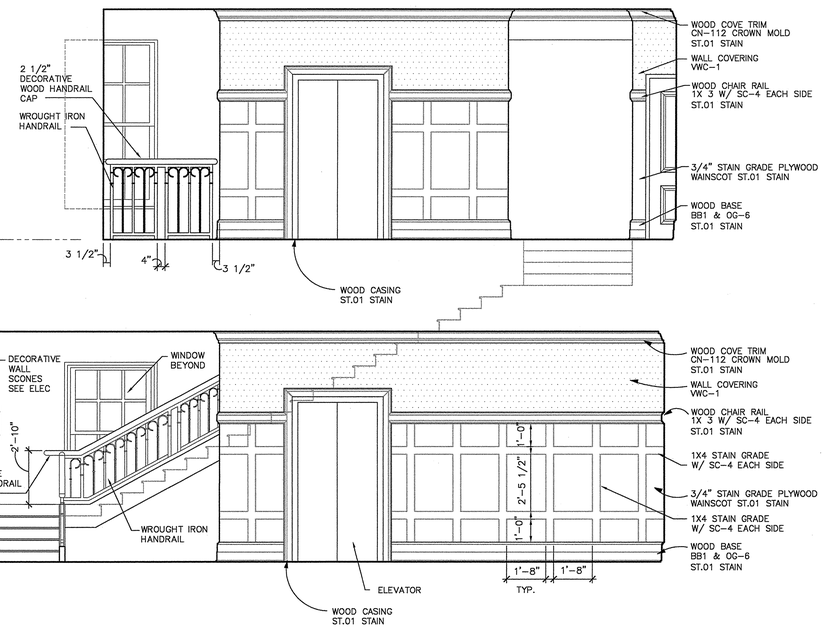
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A602

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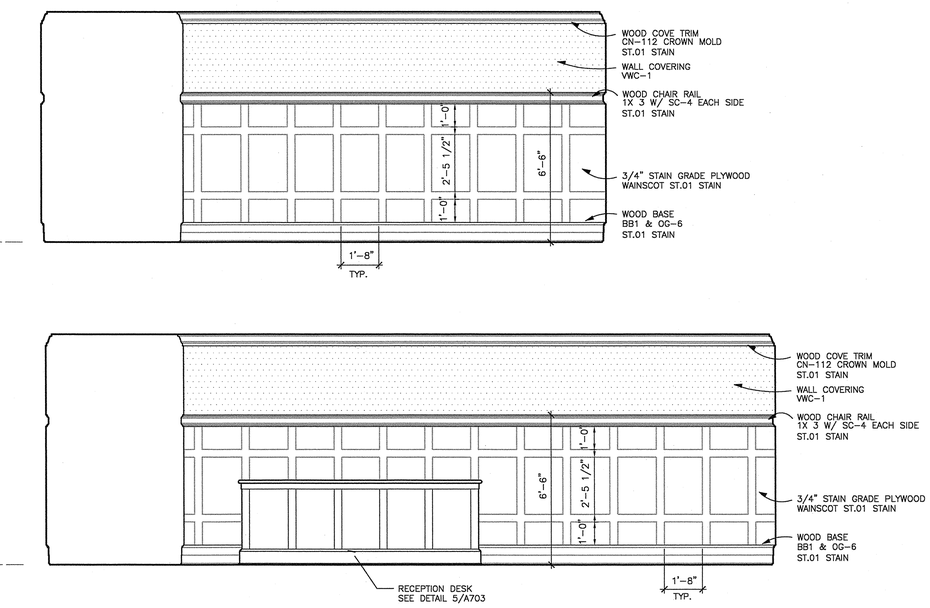
1 A701 **MAIN LOBBY ELEVATION**
SCALE: 3/8" = 1'-0"



2 A701 **MAIN LOBBY ELEVATION**
SCALE: 3/8" = 1'-0"



3 A701 **MAIN LOBBY ELEVATION**
SCALE: 3/8" = 1'-0"



4 A701 **MAIN LOBBY ELEVATION**
SCALE: 3/8" = 1'-0"

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NORTH CAROLINA

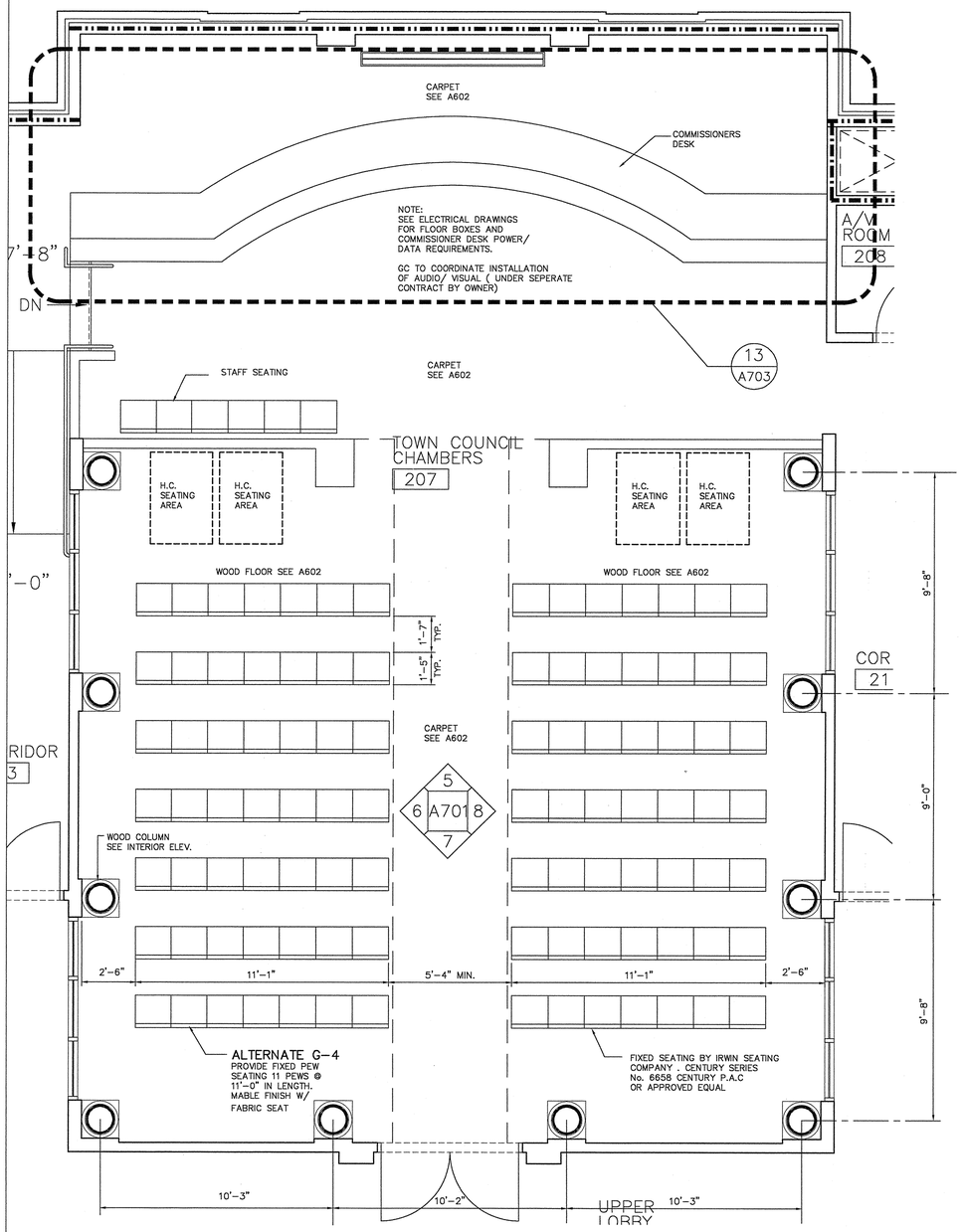
Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
INTERIOR ELEVATIONS

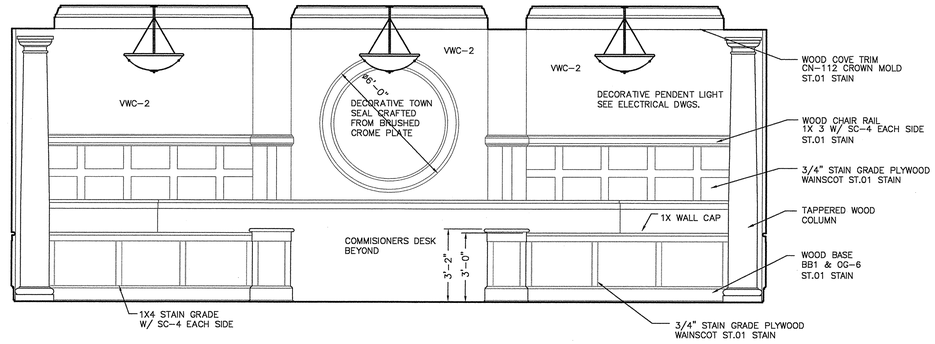
Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet Of
A701

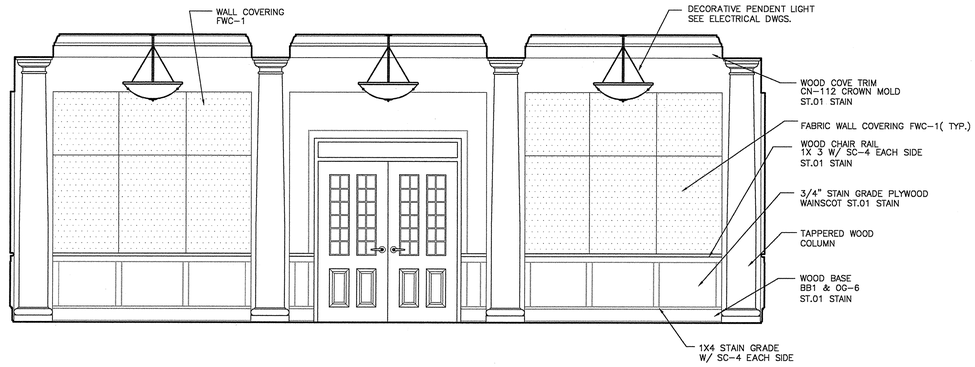
CONSTRUCTION DOCUMENTS



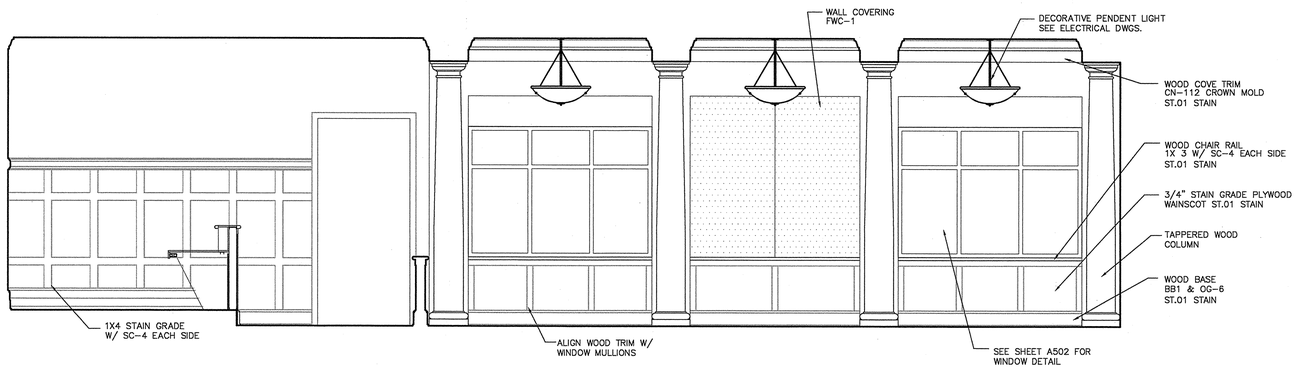
5 A702 **COUNCIL CHAMBERS PLAN**
SCALE: 1/8" = 1'-0"



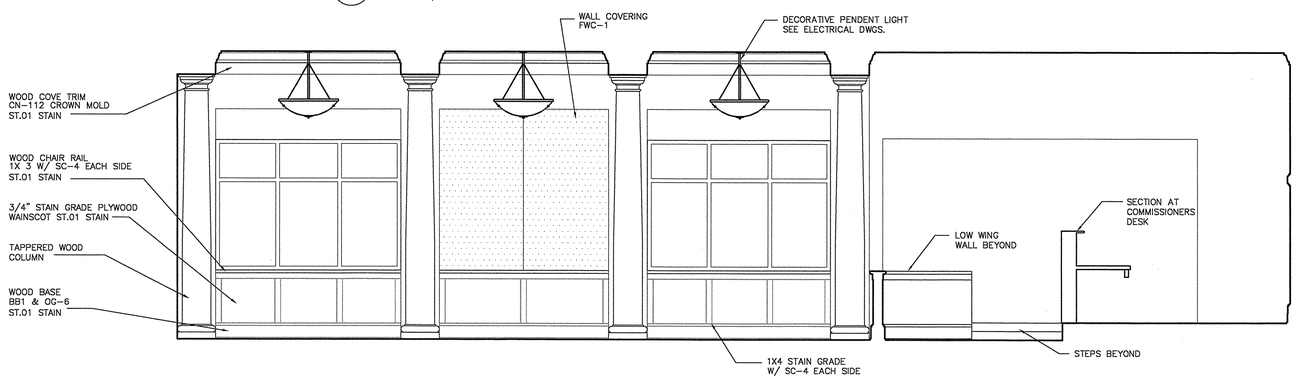
1 A702 **COUNCIL CHAMBERS ELEV.**
SCALE: 3/8" = 1'-0"



3 A702 **COUNCIL CHAMBERS ELEV.**
SCALE: 3/8" = 1'-0"



2 A702 **COUNCIL CHAMBERS ELEV.**
SCALE: 3/8" = 1'-0"



4 A702 **COUNCIL CHAMBERS ELEV.**
SCALE: 3/8" = 1'-0"

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ROBERT W. BISHOP
REGISTERED ARCHITECT
5781
STATE OF NORTH CAROLINA

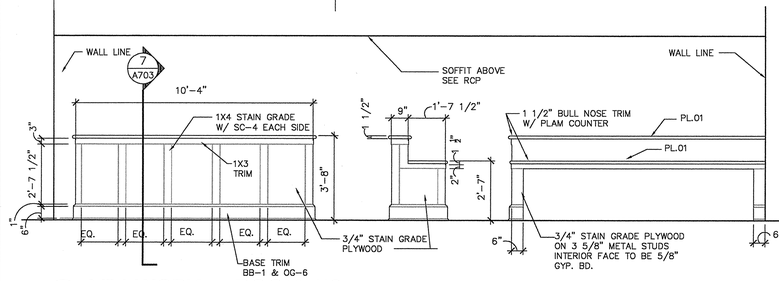
Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: INTERIOR ELEVATIONS

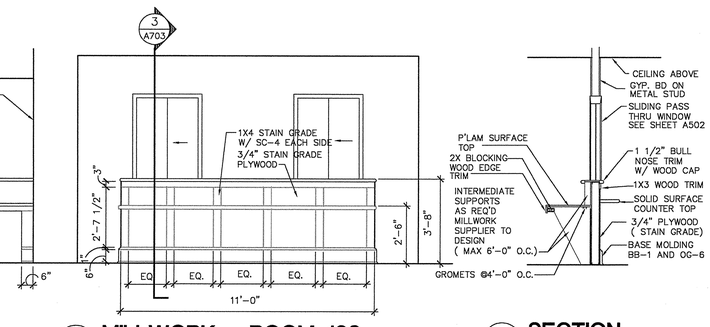
Division President: Robert Bishop, AIA
Job Captain: Brian N. Simpson,CDT,CSI
Drawn By: G. Bryan Payne, CDT
Date Drawn:
Drawing File Name:
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000
Sheet: A702 Of

CONSTRUCTION DOCUMENT

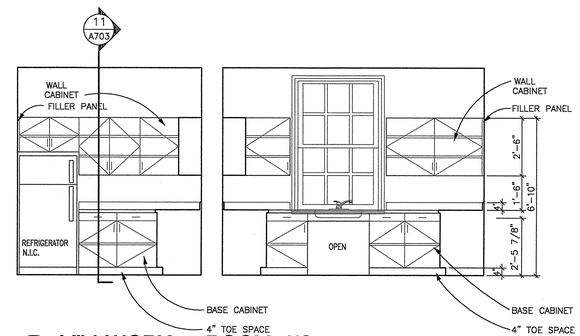


1 A703 **MILLWORK - ROOM 113**
SCALE: 3/8" = 1'-0"

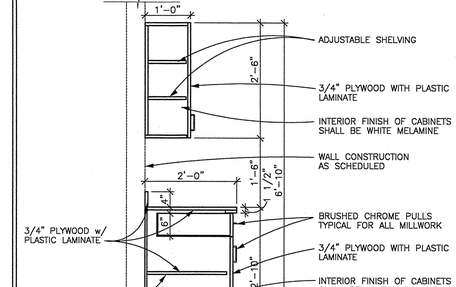


2 A703 **MILLWORK - ROOM 109**
SCALE: 3/8" = 1'-0"

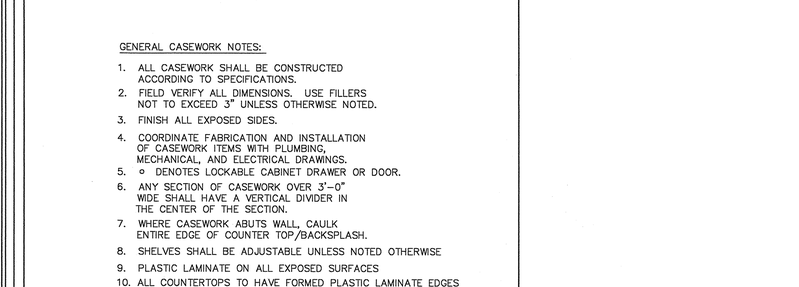
3 A703 **SECTION**
SCALE: 3/8" = 1'-0"



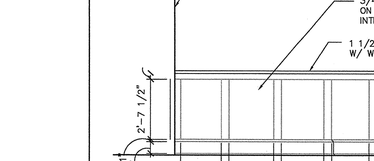
4 A703 **MILLWORK - ROOM 116**
SCALE: 3/8" = 1'-0"



5 A703 **MILLWORK - ROOM 210**
SCALE: 3/8" = 1'-0"



6 A703 **MILLWORK - ROOM 113**
SCALE: 3/8" = 1'-0"



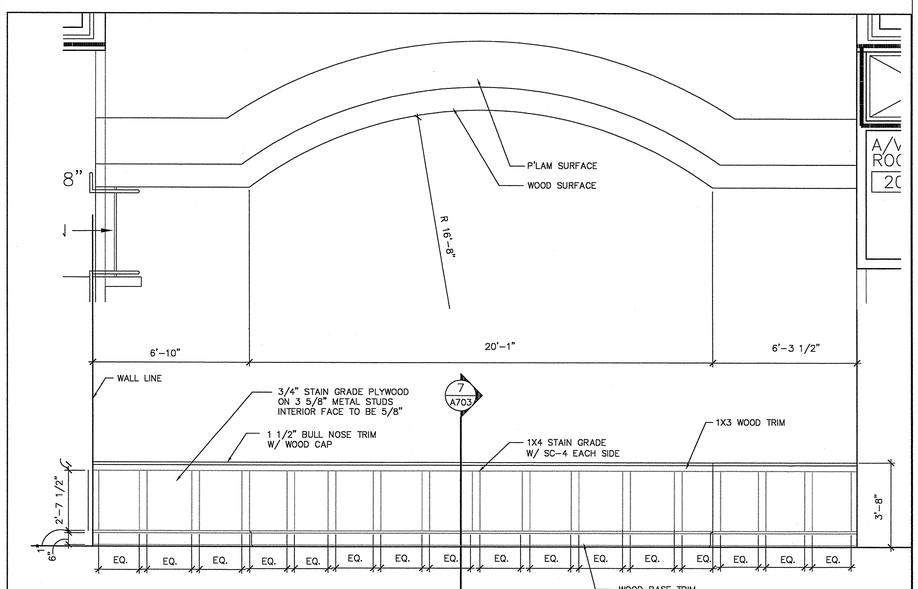
7 A703 **SECTION**
SCALE: 3/8" = 1'-0"

8 A703 **MILLWORK - ROOM 133**
SCALE: 3/8" = 1'-0"

9 A703 **MILLWORK - ROOM 129A**
SCALE: 3/8" = 1'-0"

10 A703 **MILLWORK - ROOM 129B**
SCALE: 3/8" = 1'-0"

11 A703 **MILLWORK - ROOM 119**
SCALE: 3/8" = 1'-0"



13 A703 **MILLWORK - ROOM 207**
SCALE: 3/8" = 1'-0"

16 12 A703 **MILLWORK SECTION**
SCALE: 3/4" = 1'-0"

GENERAL CASEWORK NOTES:

1. ALL CASEWORK SHALL BE CONSTRUCTED ACCORDING TO SPECIFICATIONS.
2. FIELD VERIFY ALL DIMENSIONS. USE FILLERS NOT TO EXCEED 3" UNLESS OTHERWISE NOTED.
3. FINISH ALL EXPOSED SIDES.
4. COORDINATE FABRICATION AND INSTALLATION OF CASEWORK ITEMS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
5. ○ DENOTES LOCKABLE CABINET DRAWER OR DOOR.
6. ANY SECTION OF CASEWORK OVER 3'-0" WIDE SHALL HAVE A VERTICAL DIVIDER IN THE CENTER OF THE SECTION.
7. WHERE CASEWORK ABUTS WALL, CAULK ENTIRE EDGE OF COUNTER TOP/BACKSPLASH.
8. SHELVES SHALL BE ADJUSTABLE UNLESS NOTED OTHERWISE
9. PLASTIC LAMINATE ON ALL EXPOSED SURFACES
10. ALL COUNTERTOPS TO HAVE FORMED PLASTIC LAMINATE EDGES UNLESS NOTED OTHERWISE.
11. SEE NOTES ON FLOOR PLANS FOR UNIQUE CONDITIONS AT CASEWORK

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REGISTERED ARCHITECT
5781
NORTH CAROLINA

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
MILLWORK DETAILS

Division President
Robert Bishop, AIA
Job Captain
Brian N. Simpson,CDT,CSI
Drawn By
G. Bryan Payne, CDT
Date Drawn
Drawing File Name
Revisions
No ____ Date ____
Issue Date: April 30, 2002

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511576000

Sheet Of
A703

CONSTRUCTION DOCUME

GENERAL NOTES:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH AND COORDINATED WITH ARCHITECTURAL DRAWINGS AND OTHER CONTRACT DOCUMENTS.
2. FOUNDATION DESIGN OF FOOTINGS BASED ON 3000 PSF SOIL BEARING.
3. COMPACT ALL MATERIALS SUPPORTING SLAB ON GRADE OR FOOTINGS TO 95% (100% FOR TOP 1 FOOT) OF MAXIMUM DENSITY BY STANDARD PROCTOR (ASTM D-698). SOILS TESTING LABORATORY SHALL CONDUCT COMPACTION TESTS ON ALL STRUCTURAL FILL MATERIAL.
4. MINIMUM 28 DAY CONCRETE STRENGTH 4000 PSI (150 PCF) FOR SLAB ON GRADE. ALL OTHERS SHALL BE 3000 PSI (150 PCF FOR NORMAL WEIGHT, 112 PCF FOR LIGHT WEIGHT). 3" TO 5" SLUMP.
5. ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. ALL WIRE MESH SHALL BE ASTM A82 AND A185 COLD DRAWN STEEL WIRE. WIRE MESH TO BE DELIVERED TO JOB SITE IN FLAT SHEETS (NO ROLLS.) PLACE SHEETS ON BOLSTERS AT 48" MAX. TO LOCATE IN UPPER THIRD OF SLAB.
6. LAP CONTINUOUS REINFORCING BARS 30 BAR DIAMETERS UNLESS NOTED OTHERWISE. PROVIDE CORNER BARS IN ALL WALLS AND FOOTINGS.
7. SUBMIT SHOP DRAWINGS ON ALL MATERIALS FOR APPROVAL BEFORE FABRICATION. CONTRACTOR SHALL REVIEW, APPROVE AND SIGN EACH SHEET PRIOR TO SUBMISSION. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
8. ANCHOR BOLTS FOR COLUMNS SHALL BE POSITIONED WITH A TEMPLATE PRIOR TO POURING OF PIER OR FOOTING. NUTS SHALL BE TIGHTENED ON EACH SIDE OF THE TEMPLATE TO HOLD THE ANCHOR BOLTS IN PLACE.
9. CONTROL JOINTS FOR SLAB ON GRADE SHALL BE LOCATED AS SHOWN ON PLAN. JOINTS SHALL BE FORMED USING SAW CUTS 1/8" WIDE (MAX.) BY 1/2" DEEP. SAW CUT WITHIN 12 HOURS AFTER POURING. JOINTS SHALL BE FILLED WITH SEMI-RIGID EPOXY JOINT FILLER – SEE SPECIFICATIONS.
10. ALL HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C-90. MINIMUM NET COMPRESSIVE STRENGTH (f'm) SHALL BE 1500 PSI. SEE SPECIFICATIONS FOR MORE REQUIREMENTS. FILL ALL BLOCK CELLS WHERE REBAR OCCURS SOLID WITH 3000 PSI PEA GRAVEL CONCRETE OR GROUT. SUBMIT VERIFICATION OF ALL MATERIALS TO ARCHITECT FOR APPROVAL.
11. ALL STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM–A992 (F_Y = 50) UNLESS NOTED OTHERWISE. ALL OTHER STEEL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM–A36. STRUCTURAL TUBES SHALL CONFORM TO ASTM A–500, GRADE B, AND STRUCTURAL PIPES SHALL CONFORM TO ASTM A–53, TYPES E OR S, GRADE B. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC CODE AND DETAILING MANUAL. NO STRUCTURAL MEMBERS SHALL BE SPLICED EXCEPT AS SHOWN ON APPROVED SHOP DRAWINGS. ALL COLUMNS SHALL BE CONTINUOUS.
12. FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS. FOR THE PURPOSE OF THE CONNECTION DESIGN, THE FABRICATOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA. THE ENGINEER SHALL SEAL AND SIGN EACH SHOP DRAWING CONTAINING CONNECTION DESIGNS. A NOTE SHOULD ACCOMPANY THE SEAL STATING THAT THE SEAL IS FOR "CONNECTION DESIGN ONLY" AND DOES NOT INCLUDE RESPONSIBILITY FOR MEMBER OR OR BUILDING DESIGN, DIMENSIONS, FITUP, ERECTION, ETC. GENERALLY CONNECTIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW THE RELATIONSHIP OF THE MEMBERS. CONNECTIONS SHALL BE DESIGNED FOR ONE HALF (1/2) THE ALLOWABLE LOAD ON THE MEMBER, USING THE AISC "ALLOWABLE UNIFORM LOAD TABLES" WITH GIVEN BEAM SPAN, OR FOR THE REACTIONS SHOWN ON THE CONTRACT DRAWINGS OR A MINIMUM OF 10 KIPS, WHICHEVER IS GREATEST. MEMBER FORCES AND REACTIONS HAVE BEEN REDUCED IN CONFORMANCE TO CODE PROVISIONS RELATED TO COMBINATIONS OF LOADINGS THAT INCLUDE WIND AND SEISMIC FORCES. NO FURTHER REDUCTIONS IN FORCES OR INCREASES IN ALLOWABLE STRESSES ARE PERMITTED. CONNECTIONS MAY BE BOLTED OR WELDED UNLESS NOTED OTHERWISE ON DRAWINGS.
13. ALL SHOP AND FIELD WELDING SHALL BE BY A CERTIFIED WELDER AND SHALL CONFORM TO AWS STANDARDS.
14. STEEL DECK SHALL BE AS SHOWN ON DRAWINGS WITH SUFFICIENT LENGTH TO PROVIDE A 3–SPAN CONDITION WHEREVER POSSIBLE.
15. COMPOSITE FLOOR DECK SHALL BE SECURELY FASTENED BY A MINIMUM OF 5/8" PUDDLE WELDS (WELDING WASHERS SHALL BE USED ON ALL DECK UNITS WITH A MINIMUM THICKNESS OF LESS THAN 0.028 INCHES. WELDING WASHERS SHALL BE A MINIMUM THICKNESS OF 0.056 (16 GAGE) AND HAVE A NOMINAL 3/8" DIAMETER HOLE.) ONTO THE SUPPORTING MEMBERS AT 12" SPACING. DECK ENDS ARE TO BE BUTTED OVER SUPPORT. MINIMUM END BEARING SHALL BE 2" UNLESS NOTED OTHERWISE. SIDE LAPS SHALL BE FASTENED BY NO. 10 SCREWS (OR EQUIVALENT) AT NOT MORE THAN 36" ON CENTER.

    ROOF DECK SHALL BE SECURELY FASTENED TO THE SUPPORTING STRUCTURAL MEMBERS BY THE SPECIFIED WELD PATTERN AS INDICATED ON THE SHEET S400 USING A MINIMUM OF 5/8" DIAMETER PUDDLE WELDS. WELDING WASHERS SHALL BE USED ON ALL DECK UNITS WITH A METAL THICKNESS LESS THAN 0.028". WELDING WASHERS SHALL BE A MINIMUM THICKNESS OF 0.056" (16 GAGE) AND HAVE A NOMINAL 3/8" DIAMETER HOLE. PANELS MUST BE SUFFICIENTLY OVERLAPPED TO PROVIDE ADEQUATE END DISTANCES FOR THE CONNECTOR USED. A MINIMUM END DISTANCE FOR FASTENERS USED SHALL BE 1". PANEL END JOINTS SHALL BE OVERLAPPED A MINIMUM OF 2". SIDELAP CLOSURES SHALL BE FASTENED BY NO. 10 SCREWS PER DECKING ATTACHMENT DETAIL. THE STEEL DECK INSTITUTE RECOMMENDS THAT CARE SHOULD BE EXERCISED IN THE SELECTION OF ELECTRODES AND AMPERAGE TO PROVIDE POSITIVE WELD TO PREVENT HIGH AMPERAGE BLOW HOLES. FIELD TEST WELDS SHALL BE PERFORMED TO SELECT THE PROPER TYPE OF WELDING ROD AND AMPERAGE REQUIRED. WELDS ARE TO BE MADE FROM THE TOP SIDE OF THE DECK BY A CERTIFIED WELDER IMMEDIATELY FOLLOWING THE PLACEMENT CREW. ALL BLOW HOLES SHALL BE REPAIRED BY DECK INSTALLER PRIOR TO APPLYING ROOFING MATERIAL.
16. DESIGN, DETAILING, FABRICATION AND ERECTION OF STEEL BAR JOISTS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS AND LOAD TABLES" OF THE STEEL JOIST INSTITUTE. JOISTS SHALL BE DESIGNED TO SUPPORT ADDITIONAL LOADS SHOWN ON PLANS.
17. JOIST BRIDGING SHALL BE SECURELY FASTENED TO THE JOISTS, BEAMS AND WALLS PRIOR TO STARTING PLACEMENT OF METAL DECK.
18. STEEL BAR JOISTS SHALL BE ANCHORED TO STEEL BEAMS OR PLATES WITH A MINIMUM OF 2" OF 3/16" FILLET WELD FOR K SERIES JOISTS ON EACH SIDE OF THE JOIST.
19. JOIST INTERSECTING FRAMING OVER COLUMN SHALL BE CONSTRUCTION BOLTED TO THE TOP FLANGE OF THE FRAMING. BOTTOM CHORD SHALL BE EXTENDED TO THE COLUMN OR BEAM.
20. METAL STUDS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NORTH CAROLINA. DESIGNS SHALL BE SEALED AND SIGNED BY HIM AND SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL. SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF STUDS AND STRUCTURAL FRAMING, INCLUDING ARRANGEMENT, DIMENSIONS, MATERIALS, STRESS VALUES, CONNECTORS, ANCHORAGE, AND RELATION TO ADJACENT WORK TO ARCHITECT FOR APPROVAL. METAL STUDS USED FOR BRICK BACKUP SHALL BE LIMITED IN DEFLECTION TO L/600.
21. WOOD TRUSSES SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NORTH CAROLINA. DESIGNS SHALL BE SEALED AND SIGNED BY HIM AND SHALL BE SUBMITTED TO ARCHITECT FOR APPROVAL. FABRICATION SHALL BE BY A MEMBER OF THE TRUSS PLATE INSTITUTE, INC. SUBMIT SHOP DRAWINGS SHOWING LAYOUT OF TRUSSES AND STRUCTURAL FRAMING, INCLUDING ARRANGEMENT, DIMENSIONS, MATERIALS, GRADES, STRESS VALUES, CONNECTORS, ANCHORAGE, AND RELATION TO ADJACENT WORK TO ARCHITECT FOR APPROVAL. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM LOADS UNLESS NOTED OTHERWISE:

TOP CHORD DEAD LOAD	20.0 PSF
BOTTOM CHORD DEAD LOAD	10.0 PSF
TOP CHORD LIVE LOAD	20.0 PSF

22. ALL TIMBER CONNECTORS SHALL BE SIMPSON "STRONG–TIE" (OR EQUIVALENT – SUBMIT FOR APPROVAL). CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
23. ALL FRAMED LUMBER SHALL BE SOUTHERN YELLOW PINE GRADE NO. 2 (SURFACED AT 19% MOISTURE CONTENT) OR BETTER. ALL TIMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
24. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OF THE CONTRACT DOCUMENTS AND LATEST ADDENDA AND FOR SUBMITTING SUCH DOCUMENTS TO ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE FIELD.
25. THE GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCY BETWEEN AND WITHIN EACH SET OF DRAWINGS TO THE PROJECT ARCHITECT AND ENGINEER PRIOR TO THE FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBERS.
26. THE STRUCTURAL MEMBERS OF THIS PROJECT HAVE BEEN DESIGNED BY THE STRUCTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL REQUIRED BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PROCESS UNTIL THE STRUCTURE IS TIED TOGETHER AND COMPLETED.

FLOOR LOADS:

FLOOR FINISH	1.0 PSF
SLAB (5½" LT. WT.)	42.0
DECK	2.0
HANGING	5.0
MECHANICAL	5.0
JOISTS	5.0
FLOOR DL	60.0 PSF
FLOOR LL OFFICES	80.0 PSF (50 + 30 FOR PARTITIONS)
FLOOR LL LOBBIES, ASSEMBLY, STAIRS	100.0 PSF
FLOOR LL CORRIDORS	80.0 PSF

ROOF LOADS:

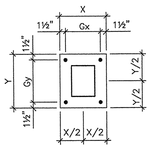
ROOFING (SINGLE PLY MECH. FAST.)	2.0 PSF
INSULATION	2.0
DECK	2.0
HANGING	3.0
MECHANICAL	3.0
CEILING	5.0
JOISTS	3.0
ROOF DL	20.0 PSF
ROOF LL	20.0 PSF

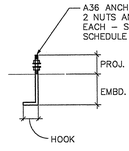
WIND LOADS:

BASIC WIND SPEED = 80 MPH
MEAN ROOF HT. =42'–0"
IMPORTANCE FACTOR = 1.07
EXPOSURE = C

BUILDING SEISMIC DATA (WIND CONTROLLED LATERAL LOAD DESIGN)

Av = 0.05 Aa = 0.075
SEISMIC HAZARD EXPOSURE GROUP III
SEISMIC PERFORMANCE CATEGORY C
SOIL PROFILE TYPE S1
BUILDING FRAME SYSTEM
Rx = 7 Cdx = 4
Ry = 7 Cdy = 4
EQUIVALENT LATERAL FORCE PROCEDURE





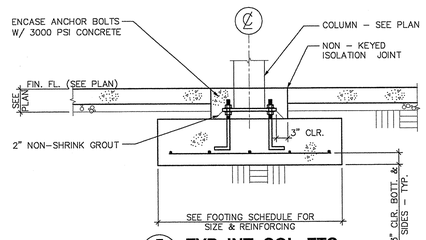
COLUMN	BASE PLATE			GAGE		ANCHOR BOLT			
	THICK.	X	Y	Gx	Gy	DIA.	PROJ.	EMBD.	HOOK
TS8x8x½	1⅜"	14"	14"	11"	11"	¾"	5"	8"	4"
TS8x8x⅜	1"	14"	14"	11"	11"	¾"	5"	8"	4"
TS8x8x¼	1¼"	14"	14"	11"	11"	¾"	5"	8"	4"
TS8x6x½	1¼"	12"	14"	9"	11"	¾"	5"	8"	4"
TS8x6x⅜	1"	12"	14"	9"	11"	¾"	5"	8"	4"
TS8x6x⁹⁄₁₆	⅞"	12"	14"	9"	11"	¾"	5"	8"	4"
TS8x6x¼	¾"	12"	14"	9"	11"	¾"	5"	8"	4"
TS6x6x½	1"	12"	12"	9"	9"	¾"	5"	8"	4"
TS6x6x⅜	1"	12"	12"	9"	9"	¾"	5"	8"	4"
TS6x6x⁹⁄₁₆	1"	12"	12"	9"	9"	¾"	5"	8"	4"
TS6x6x¼	⅞"	12"	12"	9"	9"	¾"	5"	8"	4"
TS6x6x⁹⁄₁₆	⅞"	12"	12"	9"	9"	¾"	5"	8"	4"
TS4x4x⁹⁄₁₆	½"	10"	10"	7"	7"	¾"	5"	8"	4"

2 COLUMN BASE PLATE AND ANCHOR BOLT SCHEDULE
S101 NO SCALE

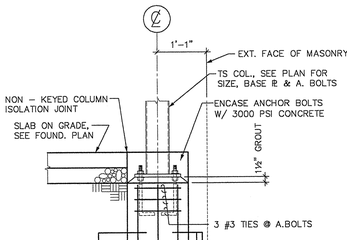
FOOTING SCHEDULE (3000 PSF)

MARK	SIZE	THICK.	REINFORCING
F30	3'–0" x 3'–0"	1'–0"	4 #4 x 2'–6" EACH WAY
F35	3'–6" x 3'–6"	1'–0"	5 #4 x 3'–0" EACH WAY
F40	4'–0" x 4'–0"	1'–0"	7 #4 x 3'–6" EACH WAY
F45	4'–6" x 4'–6"	1'–0"	6 #5 x 4'–0" EACH WAY
F50	5'–0" x 5'–0"	1'–0"	6 #5 x 4'–6" EACH WAY
F55	5'–6" x 5'–6"	1'–1"	6 #5 x 5'–0" EACH WAY
F60	6'–0" x 6'–0"	1'–2"	7 #7 x 5'–6" EACH WAY
F65	6'–6" x 6'–6"	1'–3"	7 #7 x 6'–0" EACH WAY
F70	7'–0" x 7'–0"	1'–5"	8 #7 x 6'–6" EACH WAY
F75	7'–6" x 7'–6"	1'–6"	8 #7 x 7'–0" EACH WAY
F80	8'–0" x 8'–0"	1'–7"	9 #7 x 7'–6" EACH WAY
F90	9'–0" x 9'–0"	1'–9"	10 #8 x 8'–6" EACH WAY
F4075	4'–0" x 7'–6"	1'–0"	#4 @ 7" O.C. EACH WAY

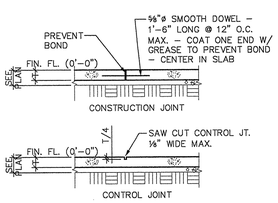
SOILS LABORATORY SHALL VERIFY BEARING PRESSURE AT BOTTOM OF EACH FOOTING PRIOR TO PLACING CONCRETE. STRUCTURAL FILL SUPPORTING SLAB OR FOOTINGS SHALL BE PLACED IN MAXIMUM 8" LIFTS, WITH EACH 8" LIFT TESTED BY LABORATORY FOR COMPACTION LISTED IN GENERAL NOTES. FOOTING DESIGN BASED ON SOIL REPORT DATED DECEMBER 17, 2001, BY GEOSCIENCE GROUP, INC., RALEIGH, NC.



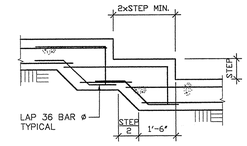
5 TYP. INT. COL. FTG.
S101 SCALE: 3/4"=1'–0"



6 TYP. COL. ON PEDESTAL
S101 SCALE: 3/4"=1'–0"

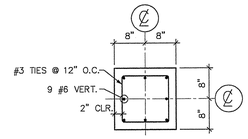


3 CONTROL JOINT
S101 SCALE: 3/4"=1'–0"

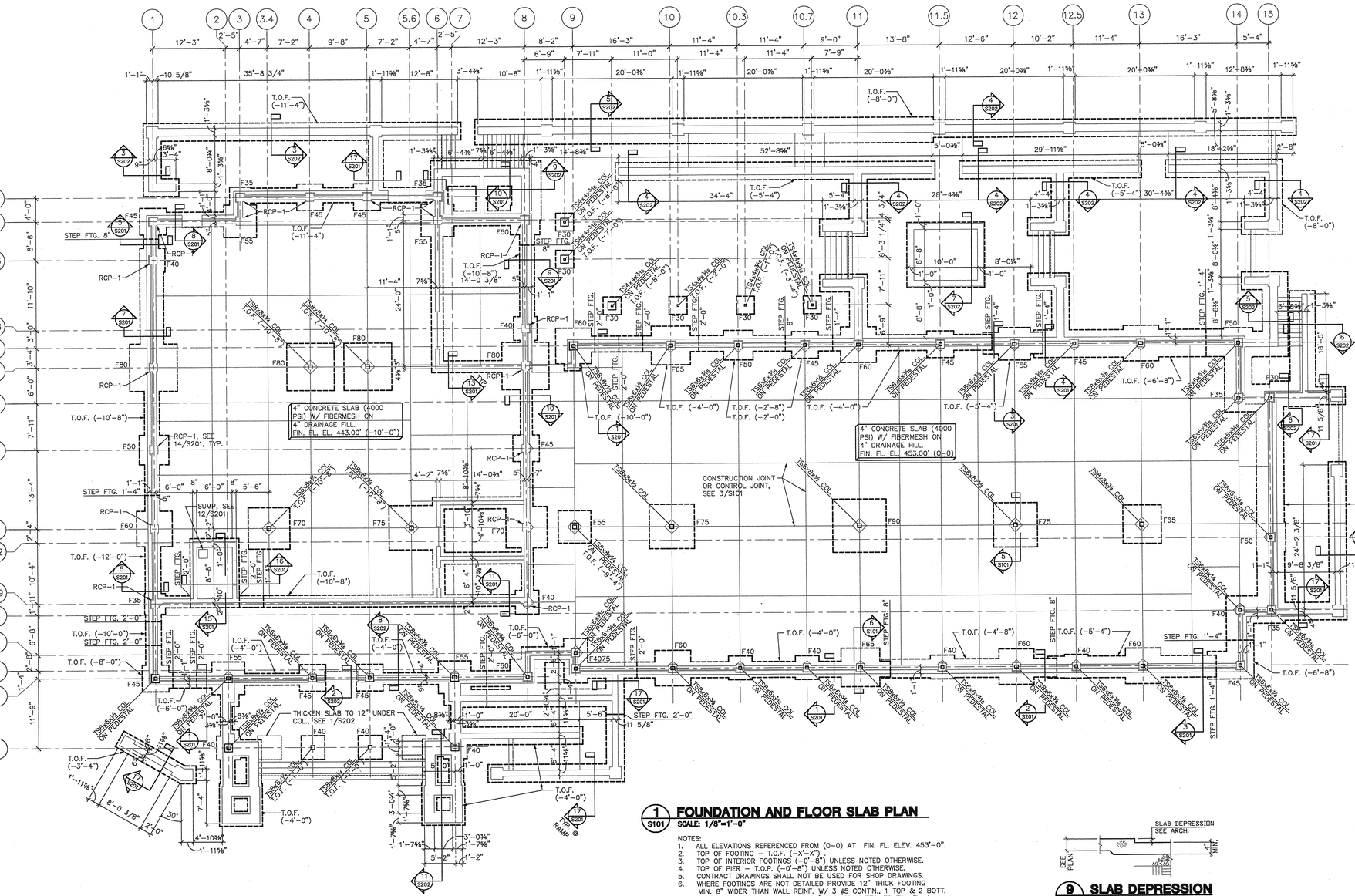


4 TYP. FTG. STEP
S101 NO SCALE

NOTE!
CONTRACTOR SHALL COORDINATE/VERIFY LOCATION OF FOOTING STEPS WITH FINISHED GRADING PLAN. PROVIDE 1'–0" MINIMUM COVER ABOVE FOOTING.



7 SECTION
S101 SCALE: 3/4"=1'–0"



1 FOUNDATION AND FLOOR SLAB PLAN
S101 SCALE: 1/8"=1'–0"

NOTES:
1. ALL ELEVATIONS REFERENCED FROM (0–0) AT FIN. FL. ELEV. 453'–0".
2. TOP OF FOOTING = T.O.F. (–X'–X")
3. TOP OF INTERIOR FOOTINGS (–0'–8") UNLESS NOTED OTHERWISE.
4. TOP OF PIER = T.O.P. (–0'–8") UNLESS NOTED OTHERWISE.
5. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
6. WHERE FOOTINGS ARE NOT DETAILED PROVIDE 12" THICK FOOTING MIN. 8" WIDER THAN WALL REINF. W/ 3 #5 CONTIN., 1 TOP & 2 BOTT. PROVIDE #4 DOWELS IN CMU @ 24" O.C. FROM FTG. TO FIN. FL. & GROUT ALL CMU CELLS BELOW FIN. FL.
7. SEE 9/S101 FOR SLAB DEPRESSION DETAIL AT ENTRANCE MATS. SEE ARCH. FOR LOCATIONS.

9 SLAB DEPRESSION
S101 NO SCALE

CONSTRUCTION DOCUMENTS

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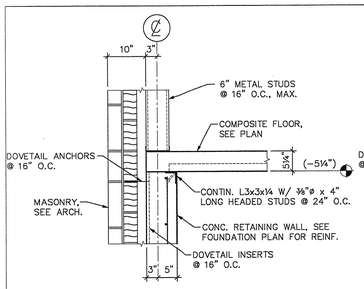
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 024P 11/30/02 WALTER DALE THORPE

Project: Holly Springs Town Hall
Holly Springs, North Carolina
Sheet Title: FOUNDATION AND FLOOR SLAB PLAN

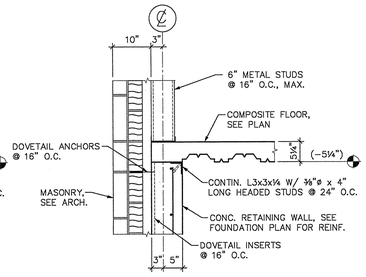
Division President: JACK ARMFIELD, P.E.
Job Captain: W. DALE THOMPSON, P.E.
Drawn By: W. DALE THOMPSON, P.E.
Date Drawn: 2/17/02
Drawing File Name: 5760S101 1/8"
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number: 511576000
Sheet: S101 Of 8

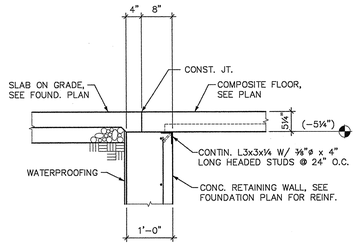
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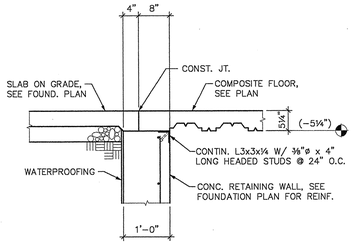
2 SECTION S102 — SCALE: 3/4"=1'-0"



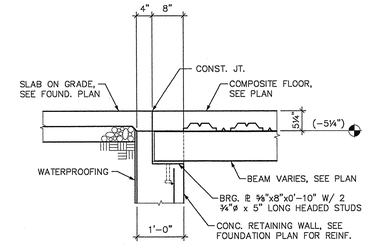
3 SECTION S102 — SCALE: 3/4"=1'-0"



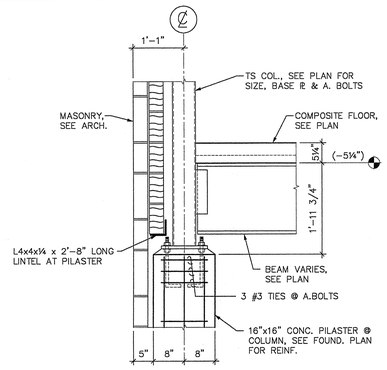
4 SECTION S102 — SCALE: 3/4"=1'-0"



5 SECTION S102 — SCALE: 3/4"=1'-0"

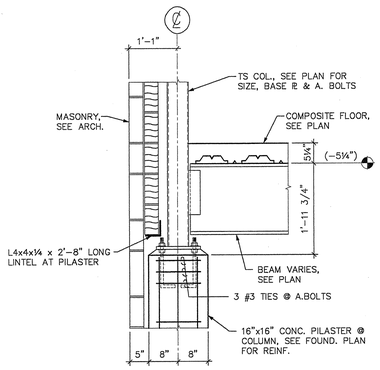


6 SECTION S102 — SCALE: 3/4"=1'-0"



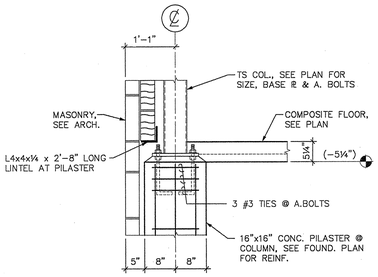
7 SECTION S102 — SCALE: 3/4"=1'-0"

@ COLUMNS "8.3-1", "8.8-8", "D-1", "F-1" & "G-1"



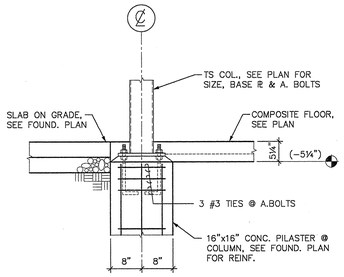
8 SECTION S102 — SCALE: 3/4"=1'-0"

@ COLUMNS "A-4", "A-5", "B-3" & "B-6"



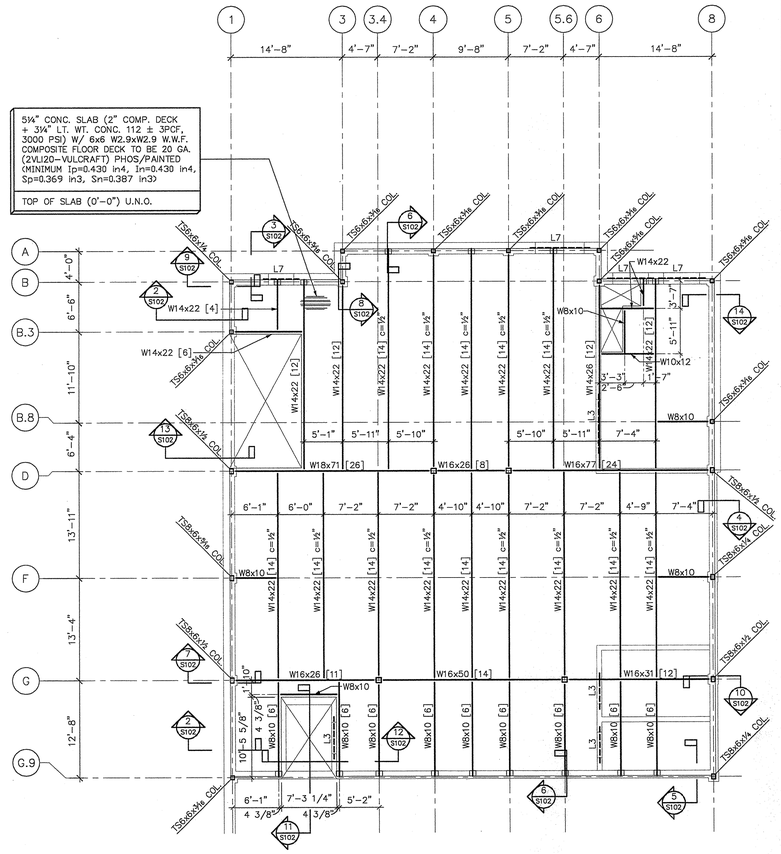
9 SECTION S102 — SCALE: 3/4"=1'-0"

@ COLUMNS "A-3", "A-6", "B-1", "B-8" & "G.9-1"



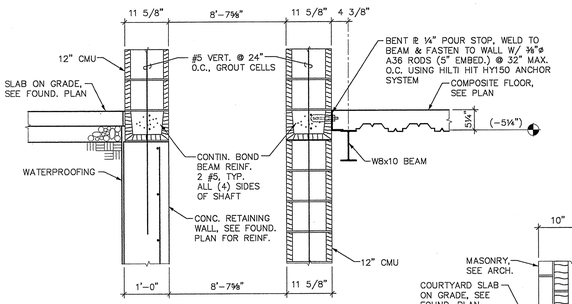
10 SECTION S102 — SCALE: 3/4"=1'-0"

@ COLUMNS "D-8", "F-8", "G-8" & "G.9-8"

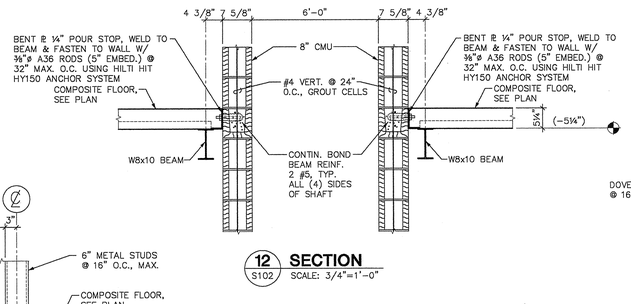


1 FLOOR FRAMING PLAN - LEVEL ONE
S102 — SCALE: 1/8"=1'-0"

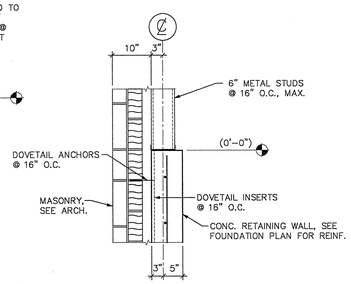
NOTES:
1. ALL ELEVATIONS REFERENCED FROM (0-0) AT FIN. FL. ELEV. 453'-0".
2. TOP OF STEEL – T.O.S. (–5¼") TYPICAL UNLESS NOTED OTHERWISE.
3. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
4. SEE SHEET S101 FOR COLUMN AND BASE PLATE SCHEDULE.
5. SEE SHEET S101 FOR GENERAL NOTES.
6. GENERAL CONTRACTOR SHALL VERIFY ALL MISCELLANEOUS STEEL REQUIRED FOR ELEVATOR RAIL SUPPORTS.
7. SEE 16/S301 FOR TYPICAL SLAB EDGE DETAIL.
8. SEE 14/S301 FOR TYPICAL CONSTRUCTION JOINT DETAIL.
9. SEE 17/S301 FOR SHEAR STUD LAYOUT.



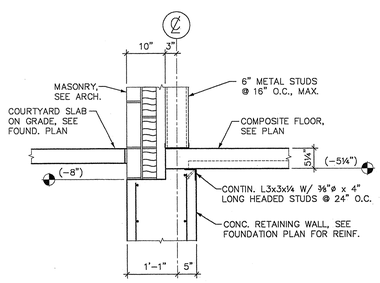
11 SECTION S102 — SCALE: 3/4"=1'-0"



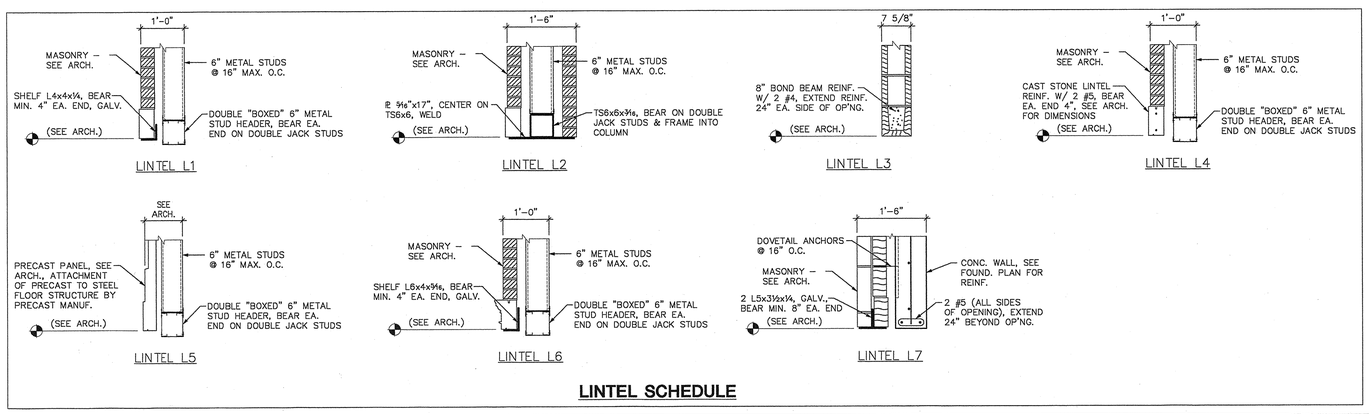
12 SECTION S102 — SCALE: 3/4"=1'-0"



13 SECTION S102 — SCALE: 3/4"=1'-0"



14 SECTION S102 — SCALE: 3/4"=1'-0"



LINTEL SCHEDULE

NOTE!
METAL STUD SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. METAL STUDS AND CONNECTIONS TO BE DESIGNED BY SUPPLIER – SEE GENERAL NOTE #20 SHEET S100. THIS DESIGN COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

COMPOSITE SLAB NOTES:

1. THE COMPOSITE FLOOR DECK SPECIFIED ON THESE DRAWINGS IS DESIGNED FOR A MINIMUM TWO SPAN CONDITION. ALL OTHER CONDITIONS REQUIRE TEMPORARY SHORING UNTIL THE SLAB ATTAINS 75% OF ITS SPECIFIED COMPRESSIVE STRENGTH. (SEE SDI SPECIFICATIONS AND COMMENTARIES).
2. CONCRETE SHALL BE PLACED FROM THE CENTER OF THE BEAMS AND SPREAD TOWARD THE CENTER OF THE DECK SPAN AND TOWARD THE GIRDERS ON EACH END OF THE BEAMS. DO NOT PLACE CONCRETE DIRECTLY ON DECK BETWEEN BEAMS UNLESS TEMPORARY SHORING IS PROVIDED.
3. THE DECK IS DESIGNED FOR A MAXIMUM OF 3/4" DEFLECTION BETWEEN BEAMS FOR WET CONCRETE UNIFORM LOAD. THE OWNER IS NOT RESPONSIBLE FOR ADDITIONAL COST OF CONCRETE DUE TO DECK DEFLECTION.

NOTE!
CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.

Little & Associates Architects

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8246 4/30/02 WALTER DALE THOMPSON

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: FLOOR FRAMING PLAN - LEVEL ONE

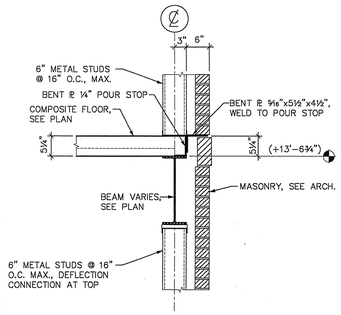
Division President: JACK ARMFIELD, P.E.
Job Captain: W. DALE THOMPSON, P.E.
Drawn By: W. DALE THOMPSON, P.E.
Date Drawn: 2/15/02
Drawing File Name: 5760S102 1/8"
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number: 511576000

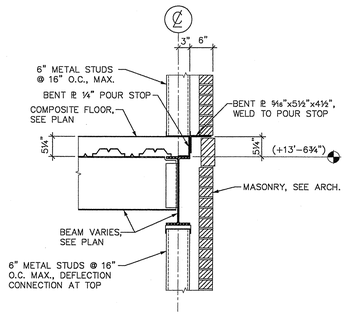
Sheet 0f 8: S102

CONSTRUCTION DOCUMENTS

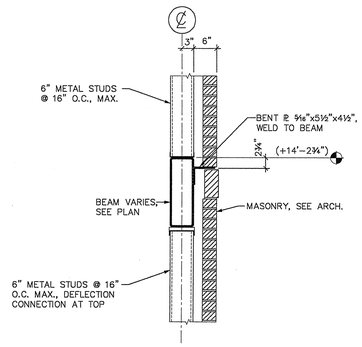
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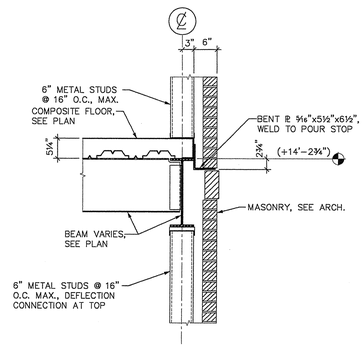
2 SECTION S103 SCALE: 3/4"=1'-0"



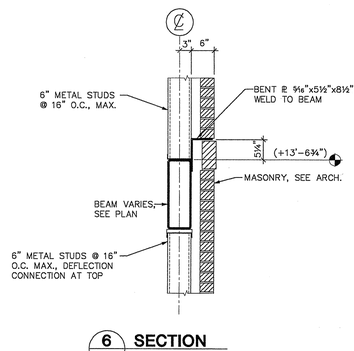
3 SECTION S103 SCALE: 3/4"=1'-0"



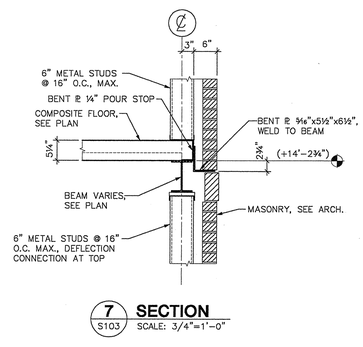
4 SECTION S103 SCALE: 3/4"=1'-0"



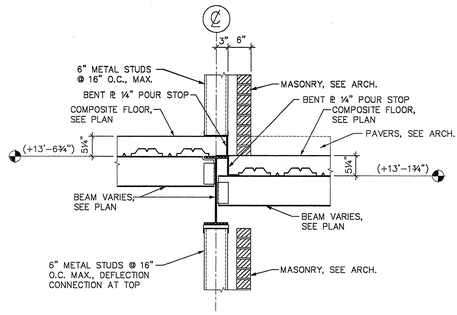
5 SECTION S103 SCALE: 3/4"=1'-0"



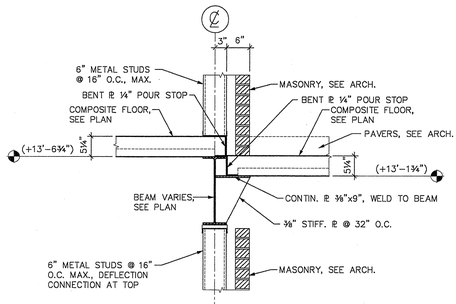
6 SECTION S103 SCALE: 3/4"=1'-0"



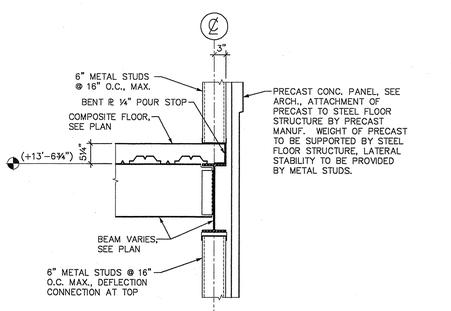
7 SECTION S103 SCALE: 3/4"=1'-0"



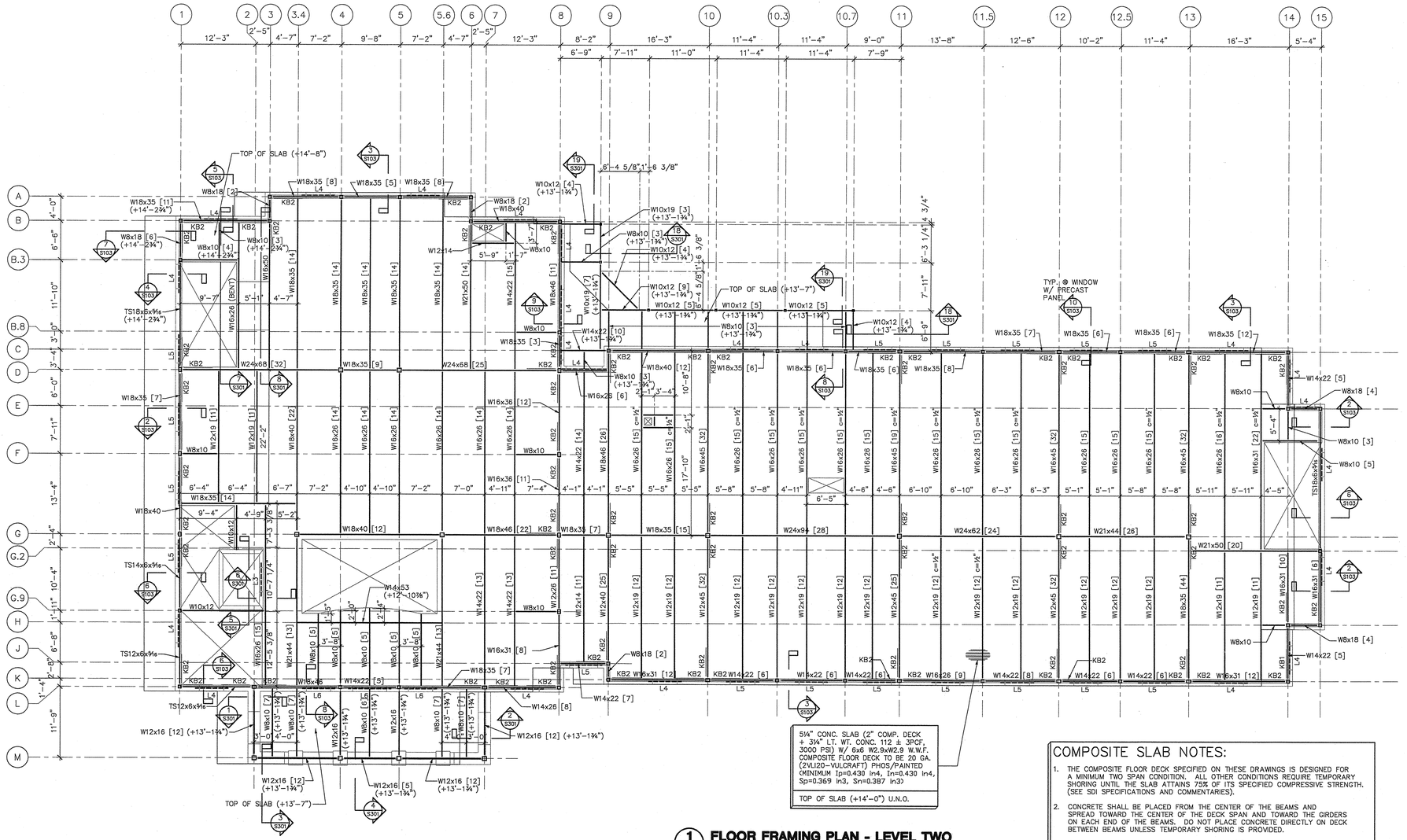
8 SECTION S103 SCALE: 3/4"=1'-0"

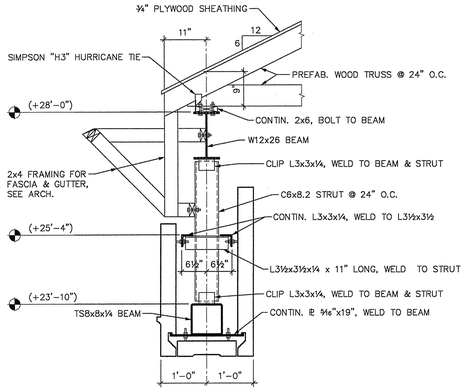


9 SECTION S103 SCALE: 3/4"=1'-0"

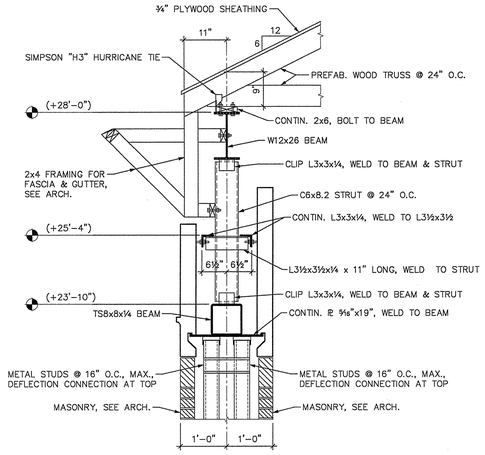


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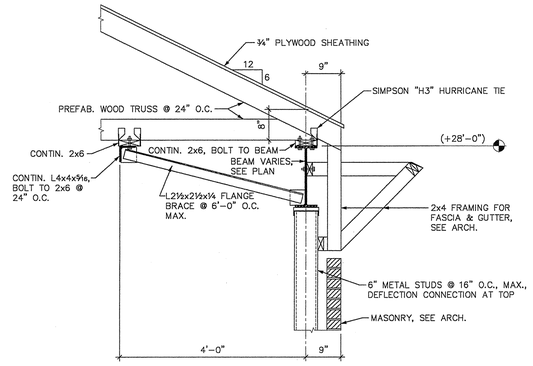

1 2 3 3.4 4 5 5.6 6 7 8 9 10 10.3 10.7 11 11.5 12 12.5 13 14 15
12'-3" 2'-5" 4'-7" 7'-2" 9'-8" 7'-2" 4'-7" 2'-5" 12'-3" 8'-2" 16'-3" 11'-4" 11'-4" 9'-0" 13'-8" 12'-6" 10'-2" 11'-4" 16'-3" 5'-4"
6'-9" 7'-11" 11'-0" 11'-4" 11'-4" 7'-9"
A B B.3 B.8 C D E F G G.2 G.9 H J K L M
4'-0" 6'-6" 11'-10" 3'-0" 3'-3" 6'-0" 7'-11" 13'-4" 2'-4" 1'-11" 10'-4" 6'-8" 2'-8" 1'-4" 11'-9"
TOP OF SLAB (+14'-8")
TOP OF SLAB (+13'-7")
TOP OF SLAB (+13'-7")
6'-4 5/8",1'-6 3/8"
TYP.; @ WINDOW W/ PRECAST PANEL
W18x35 [8] L4
W18x35 [5] L4
W18x35 [6] L4
W8x18 [2]
W18x35 [11] (+14'-2¾")
W8x18 [6] (+14'-2¾")
W8x10 [4] (+14'-2¾")
W8x10 [3] (+14'-2¾")
W16x50
W16x26 (BENT)
W18x35 [14]
W18x40 [12]
W18x46 [22]
W18x35 [7]
W18x35 [15]
W24x68 [32]
W24x68 [25]
W24x94 [28]
W24x62 [24]
W21x44 [26]
W21x50 [20]
W16x36 [12]
W16x36 [11]
W16x26 [14]
W16x26 [15]
W16x45 [32]
W16x45 [19]
W16x31 [22]
W16x31 [10]
W14x22 [13]
W14x22 [11]
W14x22 [5]
W14x22 [6]
W14x22 [8]
W14x53 (+12'-10⅜")
W12x14
W12x16 [12] (+13'-1¾")
W12x16 [5] (+13'-1¾")
W12x16 [9]
W12x19 [11]
W12x19 [12]
W12x19 [7] (+13'-1¾")
W12x22 [15]
W12x26 [9]
W12x40 [25]
W12x45 [32]
W12x45 [25]
W10x12
W10x19 [3] (+13'-1¾")
W10x12 [4] (+13'-1¾")
W10x12 [5] (+13'-1¾")
W10x12 [9] (+13'-1¾")
W8x10 [5]
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W18x35



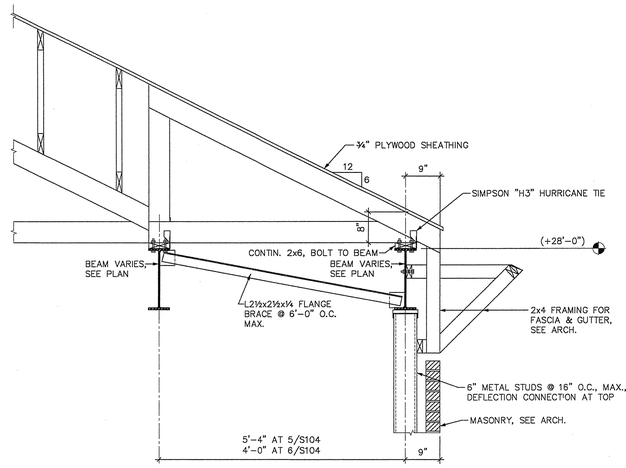
2 SECTION S104 SCALE: 3/4"=1'-0"



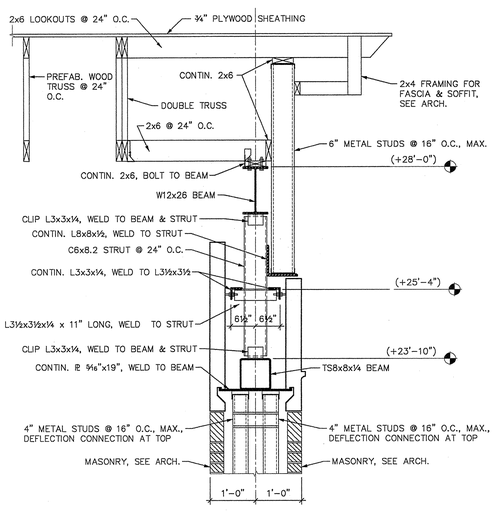
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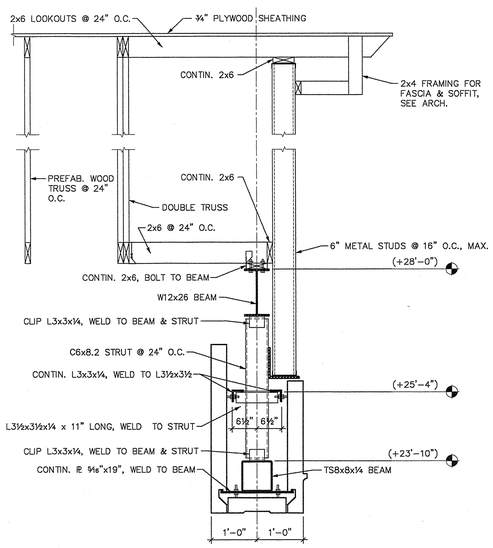
4 SECTION S104 SCALE: 3/4"=1'-0"



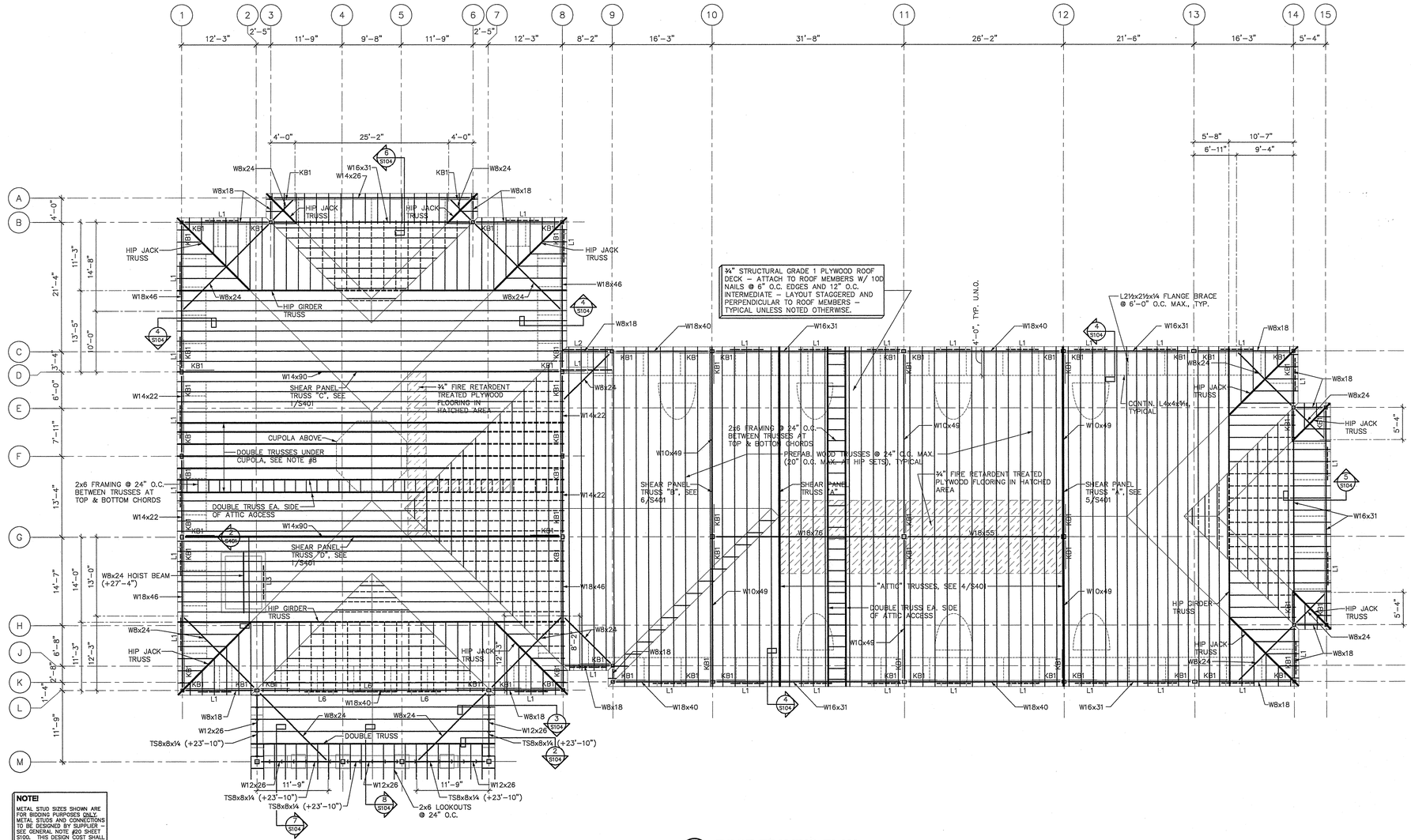
5 6 SECTIONS S104 S104 SCALE: 3/4"=1'-0"



7 SECTION S104 SCALE: 3/4"=1'-0"



8 SECTION S104 SCALE: 3/4"=1'-0"



1 ROOF FRAMING PLAN S104 SCALE: 1/8"=1'-0"

NOTES:
1. ALL ELEVATIONS REFERENCED FROM (0-0) AT FIN. FL. ELEV. 453'-0".
2. TOP OF STEEL – T.O.S. (+28'-0") TYPICAL UNLESS NOTED OTHERWISE.
3. CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.
4. SEE SHEET S101 FOR GENERAL NOTES.
5. SEE SHEET S102 FOR LINTEL DETAILS.
6. SEE SHEET S101 FOR COLUMN AND BASE PLATE SCHEDULE.
7. "KB1" INDICATES LOCATION OF TS6x4x¼ KNEE BRACE, SEE TYP. DETAIL 8/S401.
8. WOOD TRUSS DESIGNER TO OBTAIN NECESSARY INFORMATION FROM CUPOLA MANUF. FOR DESIGN OF TRUSSES SUPPORTING CUPOLA.

NOTE!
METAL STUD SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. METAL STUDS AND CONNECTIONS TO BE DESIGNED BY SUPPLIER – SEE GENERAL NOTE #20 SHEET S100. THIS DESIGN COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

NOTE!
CONTRACT DRAWINGS SHALL NOT BE USED FOR SHOP DRAWINGS.

CONSTRUCTION DOCUMENTS

Little & Associates Architects
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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8246 4/30/02 WALTER BALL THOMPSON

Project: Holly Springs Town Hall
Holly Springs, North Carolina

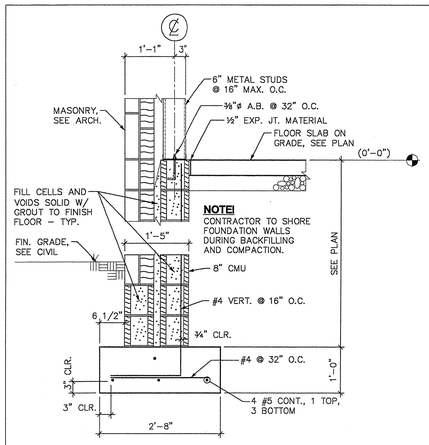
Sheet Title: ROOF FRAMING PLAN

Division President	JACK ARMFIELD, P.E.
Job Captain	W. DALE THOMPSON, P.E.
Drawn By	W. DALE THOMPSON, P.E.
Date Drawn	2/07/02
Drawing File Name	5760S104
Revisions	No ___ Date ___ (×12)
Issue Date:	04/30/02

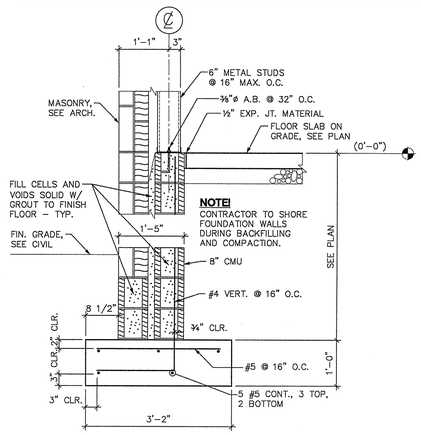
Project Number: 511576000

Sheet S104 Of 8

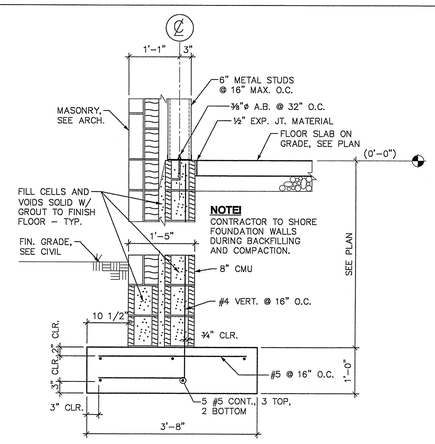
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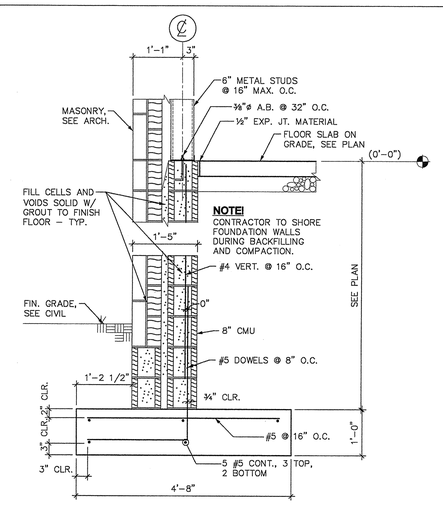
1 S201 **SECTION**
SCALE: 3/4"=1'-0"



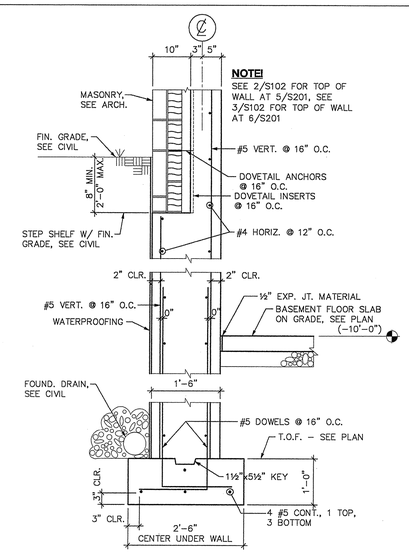
2 S201 **SECTION**
SCALE: 3/4"=1'-0"



3 S201 **SECTION**
SCALE: 3/4"=1'-0"

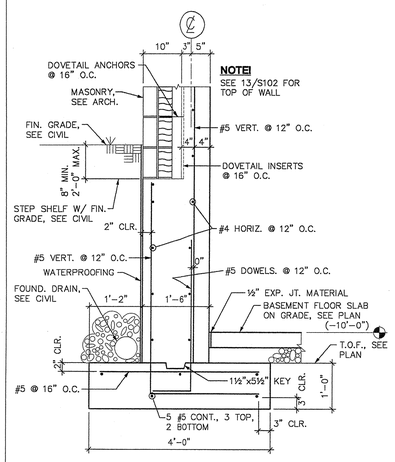


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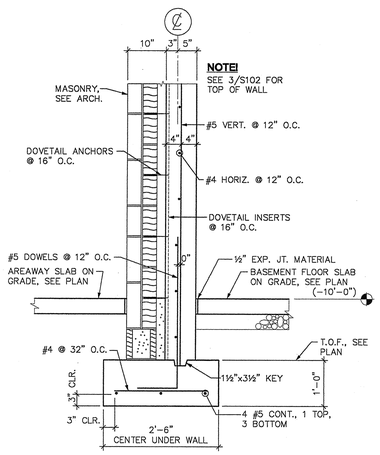


NOTE:
DO NOT BACKFILL RETAINING WALL UNTIL BOTH BASEMENT AND LEVEL ONE FLOOR SLABS ARE IN PLACE.

5 S201 6 S201 **SECTIONS**
SCALE: 3/4"=1'-0"

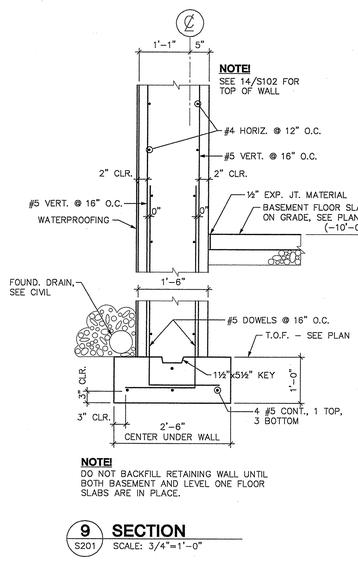


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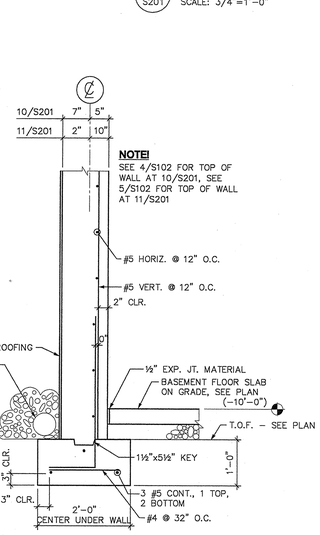
NOTE:
DO NOT BACKFILL RETAINING WALL UNTIL BOTH BASEMENT AND LEVEL ONE FLOOR SLABS ARE IN PLACE.

8 S201 **SECTION**
SCALE: 3/4"=1'-0"



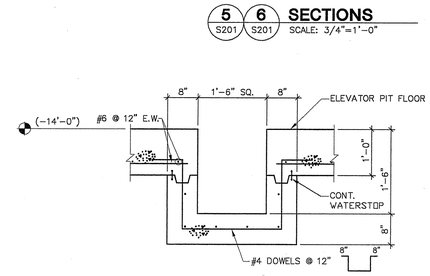
NOTE:
DO NOT BACKFILL RETAINING WALL UNTIL BOTH BASEMENT AND LEVEL ONE FLOOR SLABS ARE IN PLACE.

9 S201 **SECTION**
SCALE: 3/4"=1'-0"

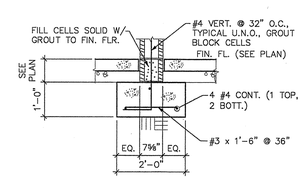


NOTE:
DO NOT BACKFILL RETAINING WALL UNTIL BOTH BASEMENT AND LEVEL ONE FLOOR SLABS ARE IN PLACE.

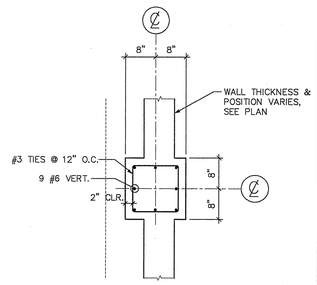
10 S201 11 S201 **SECTIONS**
SCALE: 3/4"=1'-0"



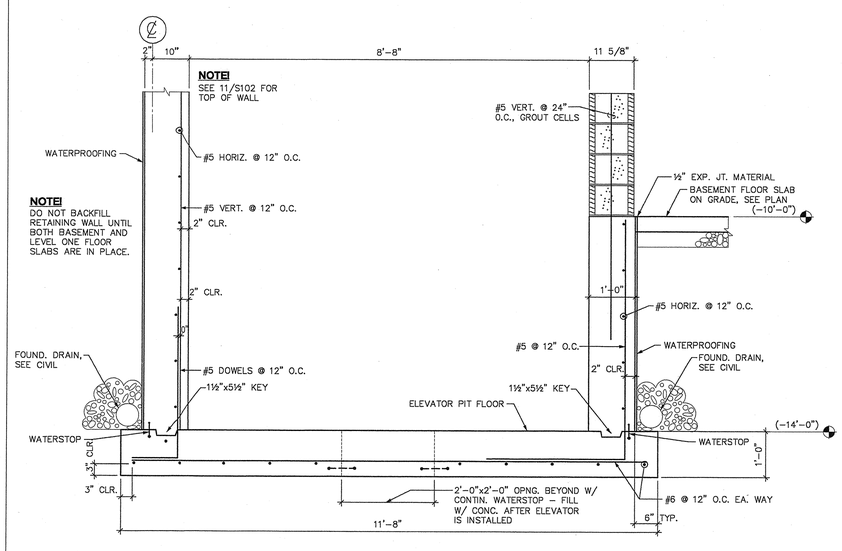
12 S103 **SUMP PIT DETAIL**
SCALE: 3/4"=1'-0"
VERIFY WITH ELEVATOR SUPPLIER



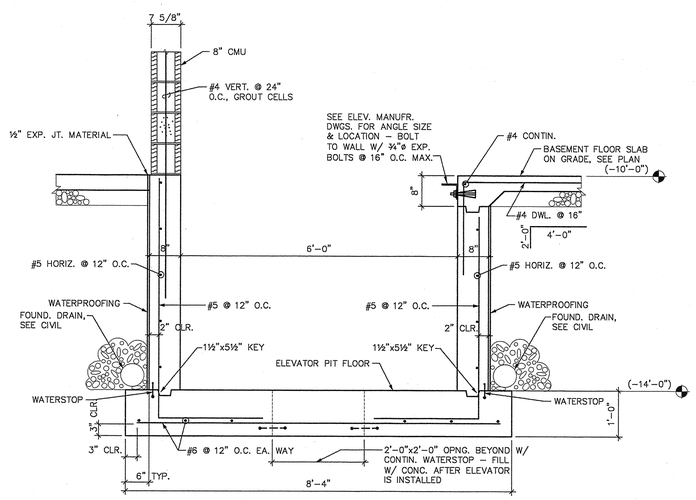
13 S201 **SECTION**
SCALE: 3/4"=1'-0"



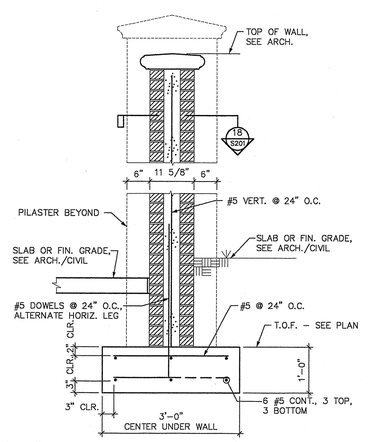
14 S201 **REINF. CONC. PILASTER - RCP-1**
SCALE: 3/4"=1'-0"



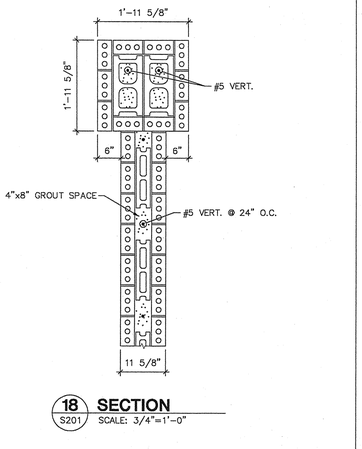
15 S201 **SECTION**
SCALE: 3/4"=1'-0"



16 S201 **SECTION**
SCALE: 3/4"=1'-0"



17 S201 **SECTION**
SCALE: 3/4"=1'-0"



18 S201 **SECTION**
SCALE: 3/4"=1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8246 4/30/02 WALTER DALE THOMPSON

Holly Springs Town Hall
Holly Springs, North Carolina

Project

FOUNDATION DETAILS

Sheet Title

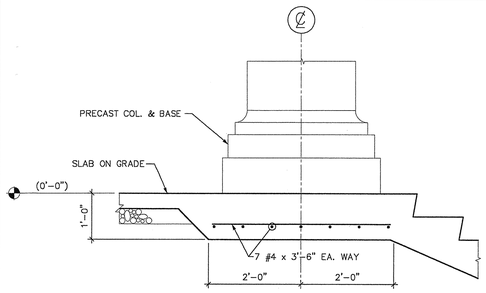
Division President
JACK ARMFIELD, P.E.
Job Captain
W. DALE THOMPSON, P.E.
Drawn By
W. DALE THOMPSON, P.E.
Date Drawn
2/07/02
Drawing File Name
5760S201
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number
511576000

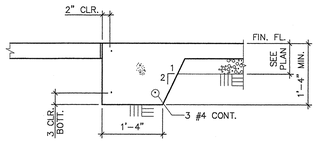
Sheet Of 8
S201

CONSTRUCTION DOCUMENTS

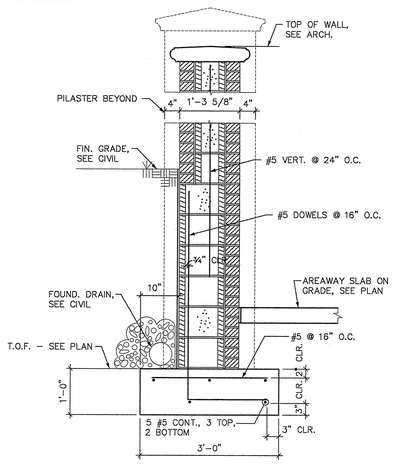
02-25-05
Number 3
My Drawing



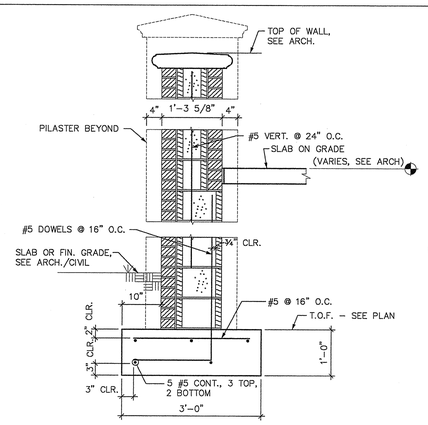
1 DETAIL S202 SCALE: 3/4"=1'-0"



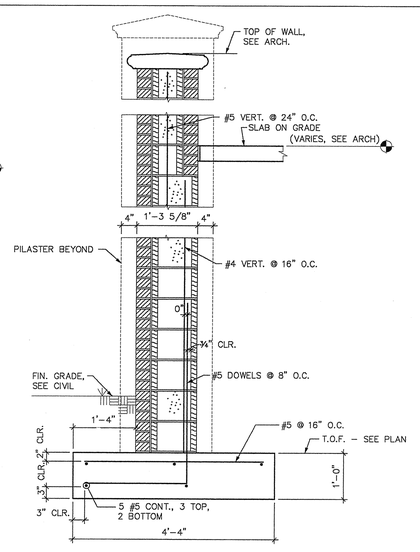
2 SECTION S202 SCALE: 3/4"=1'-0"



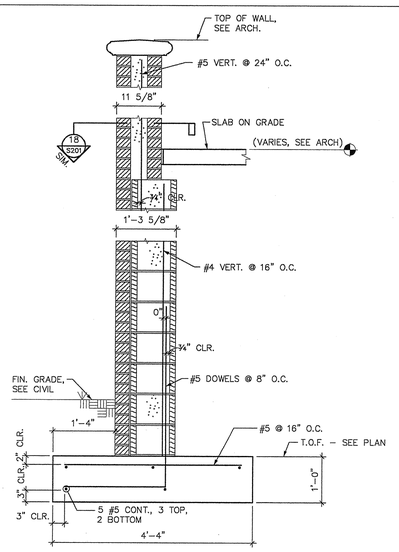
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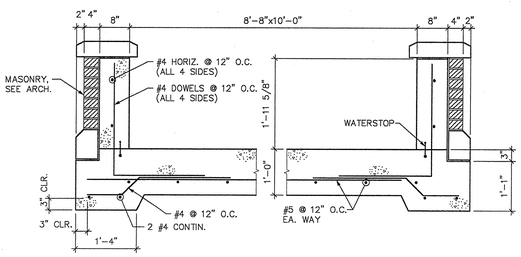
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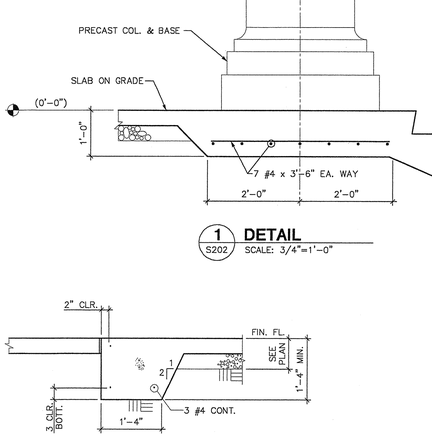
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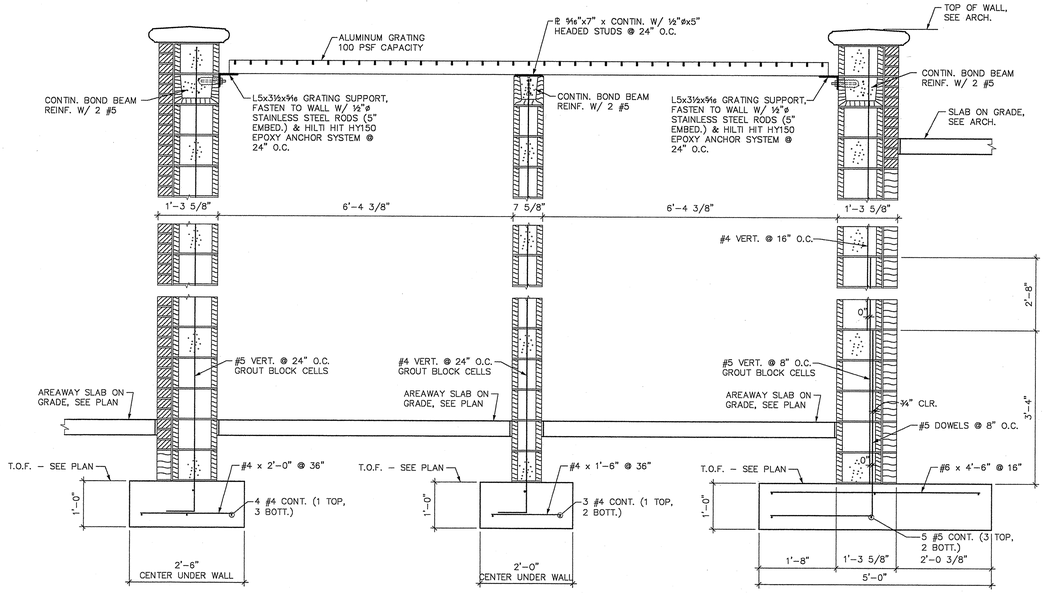
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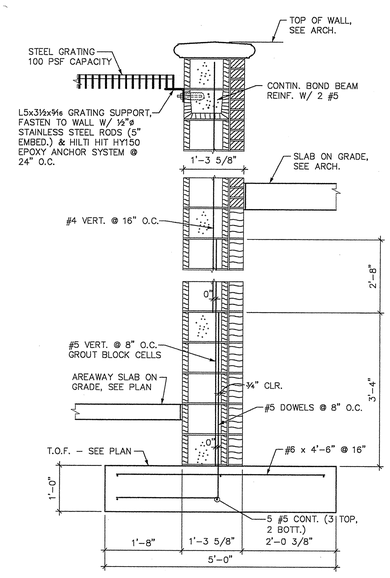
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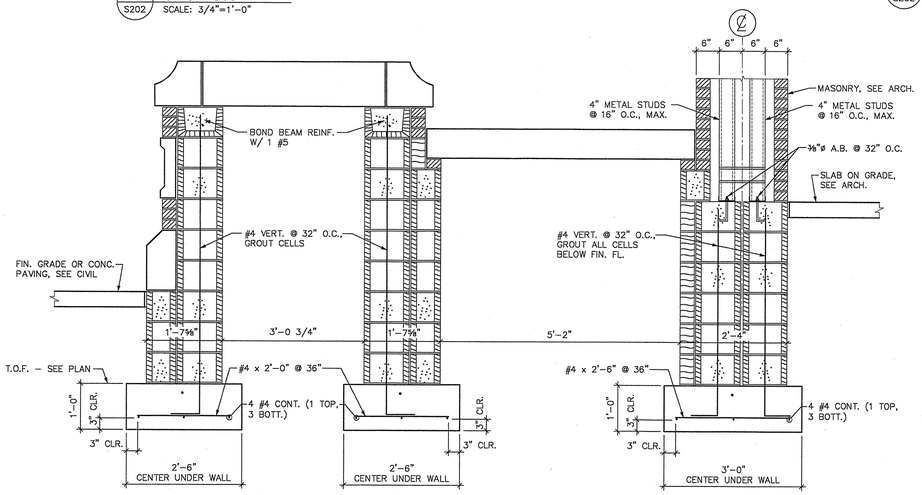
8 SECTION S202 SCALE: 3/4"=1'-0"



9 SECTION S202 SCALE: 3/4"=1'-0"



10 SECTION S202 SCALE: 3/4"=1'-0"



11 SECTION S202 SCALE: 3/4"=1'-0"

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NORTH CAROLINA PROFESSIONAL 8246 4/30/02 REGISTERED ENGINEER SEAL

Walter Dale Thompson

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: FOUNDATION DETAILS

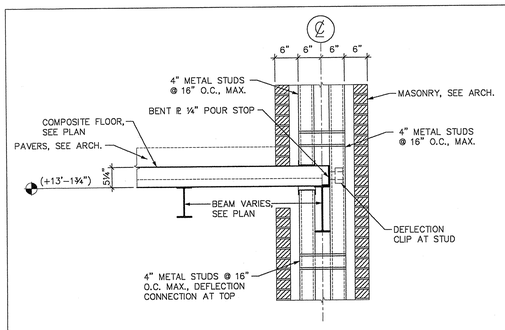
Division President: JACK ARMFIELD, P.E.
Job Captain: W. DALE THOMPSON, P.E.
Drawn By: W. DALE THOMPSON, P.E.
Date Drawn: 2/07/02
Drawing File Name: 5760S202
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number: 511576000

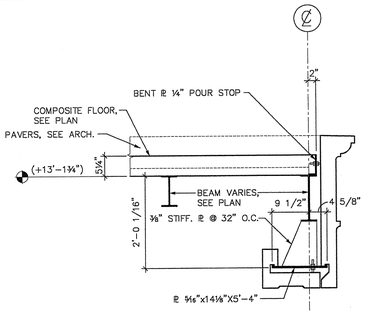
Sheet S202 Of 8

CONSTRUCTION DOCUMENTS

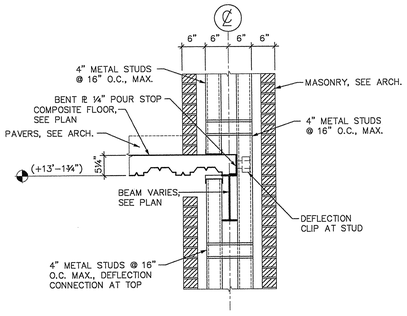
10-25-60 Number 3 by Drawing



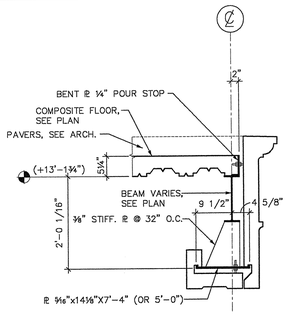
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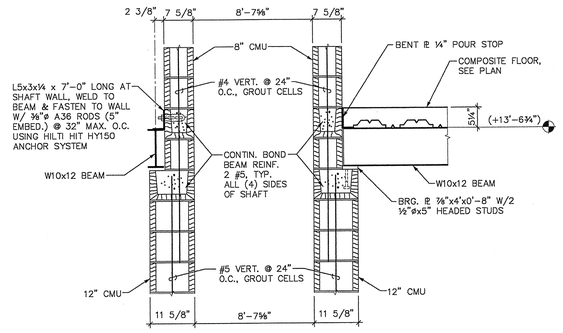
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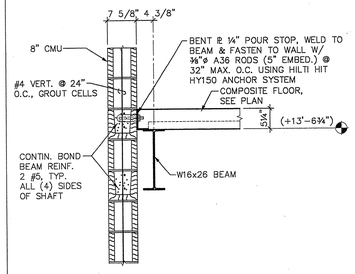
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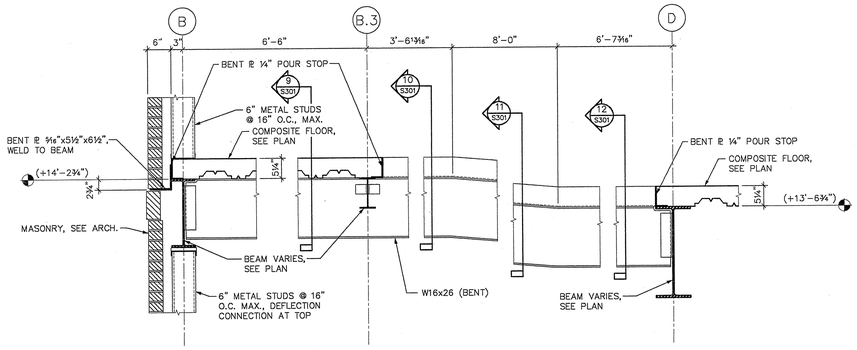
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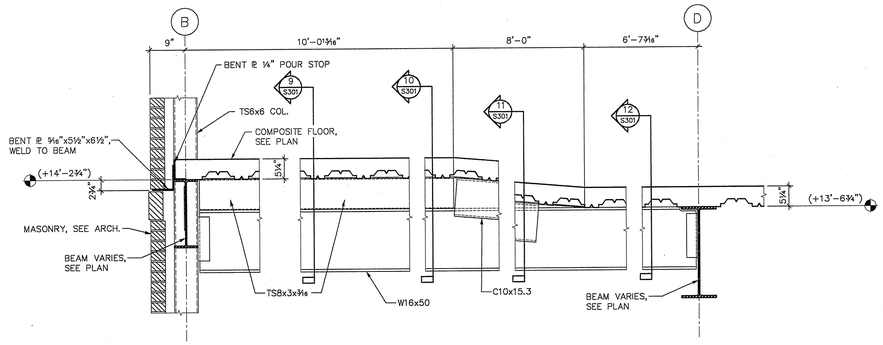
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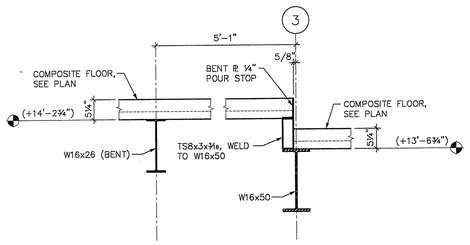
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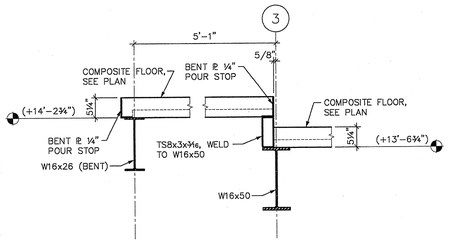
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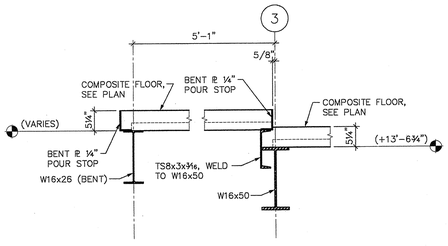
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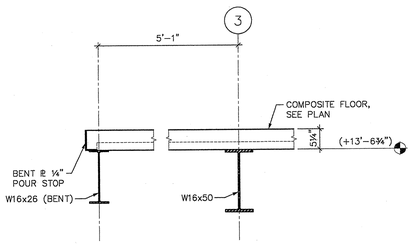
9 SECTION S301 SCALE: 3/4"=1'-0"



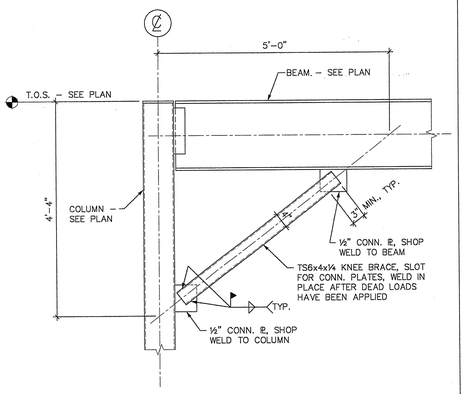
10 SECTION S301 SCALE: 3/4"=1'-0"



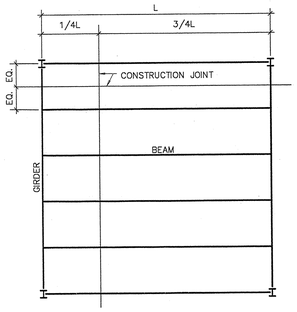
11 SECTION S301 SCALE: 3/4"=1'-0"



12 SECTION S301 SCALE: 3/4"=1'-0"



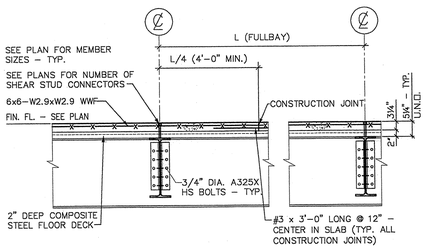
13 KNEE BRACE "KB2" DETAIL S301 SCALE: 3/4"=1'-0"



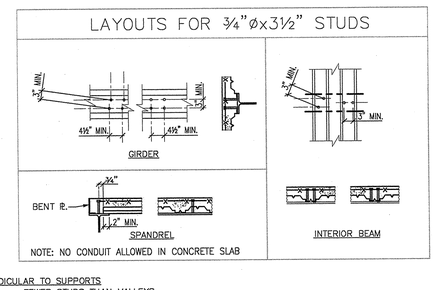
CONSTRUCTION JOINT – FORMED

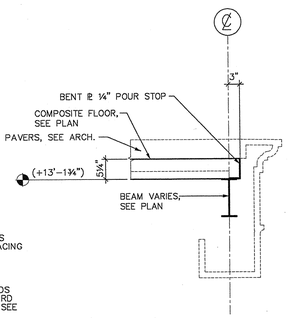
TYP. SUPPORTED SLAB CONSTRUCTION JOINT – G.C. TO VERIFY CONSTRUCTION JOINT LOCATION. AT TERRAZZO FINISH, JOINT TO LOCATION TO COINCIDE WITH TERRAZZO JOINT.
SEE 15/S301 FOR DETAIL.

14 DETAIL S301 SCALE: NO SCALE

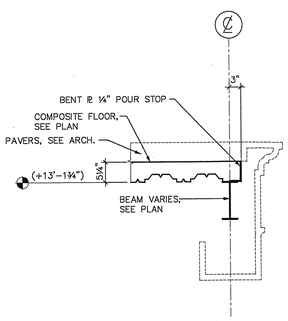


15 DETAIL S301 SCALE: NO SCALE

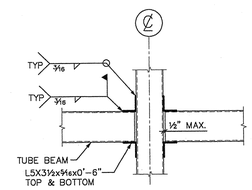




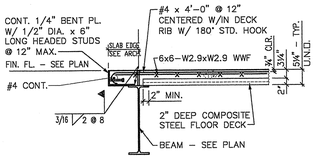
18 SECTION S301 SCALE: 3/4"=1'-0"



19 SECTION S301 SCALE: 3/4"=1'-0"



20 TYP. TUBE TO TUBE CONN. S301 SCALE: 3/4"=1'-0"



16 DETAIL S301 SCALE: NO SCALE

NOTE!
METAL STUD SIZES SHOWN ARE FOR BIDDING PURPOSES ONLY. METAL STUDS AND CONNECTIONS TO BE DESIGNED BY SUPPLIER – SEE GENERAL NOTE #20 SHEET S100. THIS DESIGN COST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR

DECK PERPENDICULAR TO SUPPORTS

CASE 1 DESIGNATION PROCEDURE: FEWER STUDS THAN VALLEYS
W12x14 [22] INDICATES NUMBER OF STUDS
PLACE A STUD IN ALTERNATING FLUTES FOR ENTIRE LENGTH OF BEAM. PLACE REMAINING STUDS IN FLUTES NOT ALREADY HAVING A STUD. STARTING NEAR BEAM ENDS AND CONTINUING TOWARD BEAM CENTER. MAXIMUM SPACING ALLOWED IS 24" O.C. SEE SKETCH FOR APPROXIMATE LOCATION OF SINGLE STUDS IN FLUTES.

CASE 2 DESIGNATION PROCEDURE: MORE STUDS THAN VALLEYS
W12x14 [22] INDICATES NUMBER OF STUDS
PLACE A STUD IN ALL AVAILABLE FLUTES. IF STUDS REMAIN PLACE A SECOND STUD IN FLUTES NEAR BEAM ENDS AND CONTINUE PLACING A SECOND STUD IN EACH FLUTE TOWARD BEAM CENTER. IF STUDS REMAIN, PLACE A THIRD STUD IN FLUTES NEAR BEAM ENDS AND CONTINUE PLACING A THIRD STUD IN EACH FLUTE TOWARD BEAM CENTER. SEE SKETCH FOR APPROXIMATE LOCATION FOR TWO OR THREE STUDS IN FLUTES.

DECK PARALLEL TO SUPPORT

CASE 4 DESIGNATION PROCEDURE: W24x68 [36] INDICATES NUMBER OF STUDS
PLACE A SINGLE ROW OF STUDS ALONG BEAM AT EQUAL SPACING. IF SPACING IS LESS THAN 4 1/2", USE DOUBLE ROW AS REQUIRED.

NOTES:
1. GENERALLY, FIRST STUD IS PLACED 12" FROM COLUMN CENTER LINE.
2. CONNECTION DESIGN:
   A. FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS DESIGNED ON THE STRUCTURAL DRAWINGS. FOR THE PURPOSE OF CONNECTION DESIGN, THE FABRICATOR SHALL RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE ENGINEER SHALL SEAL AND SIGN EACH SHOP DRAWING CONTAINING CONNECTION DESIGNS. A NOTE SHOULD ACCOMPANY THE SEAL STATING THAT THE SEAL IS FOR "CONNECTION DESIGN ONLY" AND DOES NOT INCLUDE RESPONSIBILITY FOR MEMBER OR BUILDING DESIGN, DIMENSIONS, FITUP, ERECTION, ETC.
   B. GENERALLY, CONNECTIONS SHOWN ON THE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO SHOW THE RELATIONSHIP OF THE MEMBERS.
   C. CONNECTIONS SHALL BE DESIGNED FOR ONE–HALF (1/2) THE ALLOWABLE LOAD ON THE MEMBER, DEFINED AS We/2L IN THE AISC "UNIFORM LOAD CONSTANTS" TABLES OR FOR THE REACTIONS AS SHOWN ON THE DRAWINGS OR A MINIMUM OF 10 KIPS, WHICHEVER IS GREATEST.
   D. MEMBER FORCES AND REACTIONS HAVE BEEN REDUCED IN CONFORMANCE TO CODE PROVISIONS RELATED TO COMBINATIONS OF LOADINGS THAT INCLUDE WIND AND SEISMIC FORCES. NO FURTHER REDUCTIONS IN FORCES OR INCREASES IN ALLOWABLE STRESSES ARE PERMITTED.
3. CONNECTIONS MAY BE BOLTED OR WELDED, U.N.O. ON THE DRAWINGS.

17 SHEAR STUD LAYOUT S301 SCALE: NO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 8246 1/30/02 WALTER DALE THOMPSON

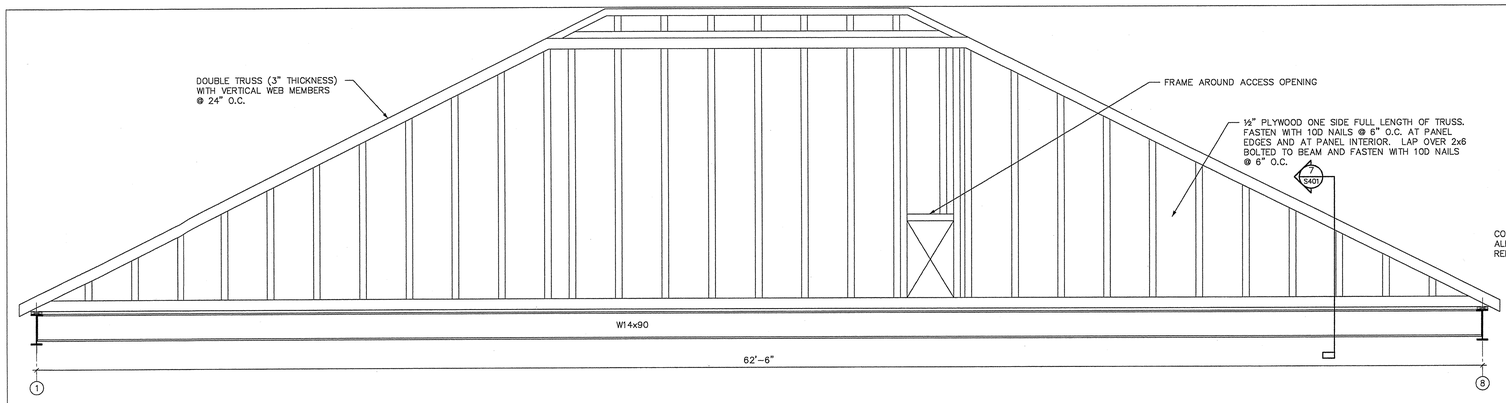
Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: FLOOR FRAMING DETAILS

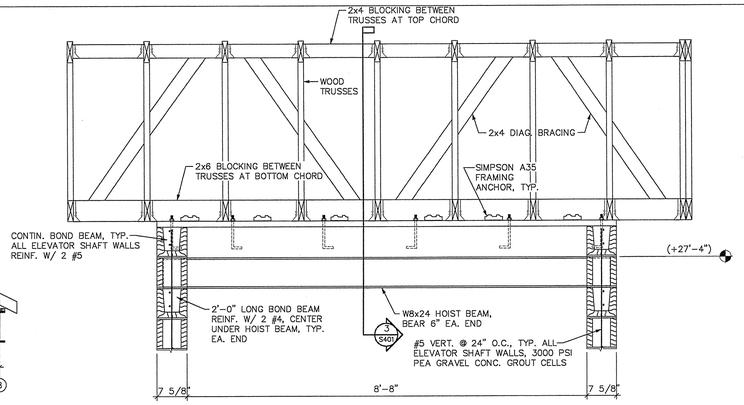
Division President: JACK ARMFIELD, P.E.
Job Captain: W. DALE THOMPSON, P.E.
Drawn By: W. DALE THOMPSON, P.E.
Date Drawn: 2/07/02
Drawing File Name: 5760S301
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number: 511576000
Sheet: S301 Of 8

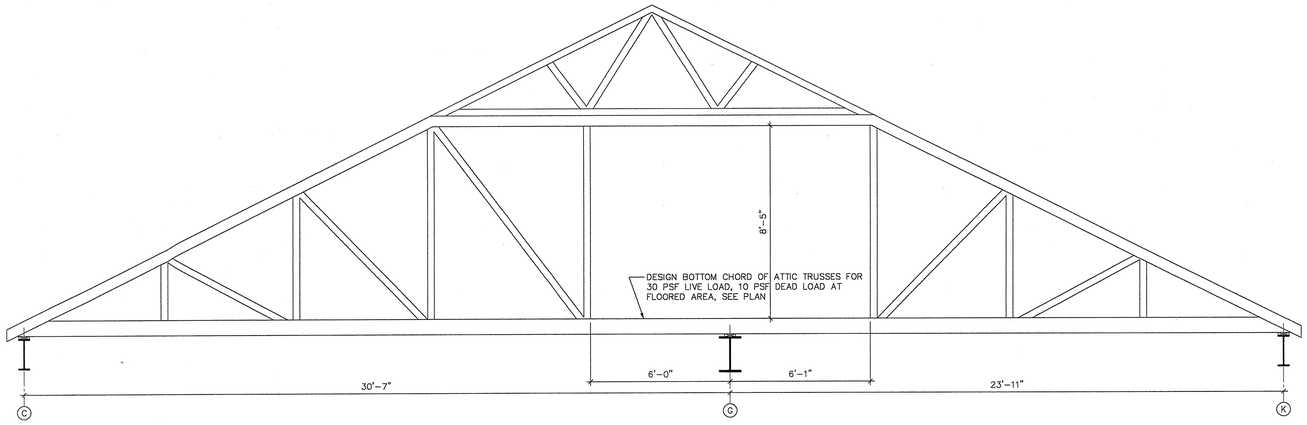
CONSTRUCTION DOCUMENTS



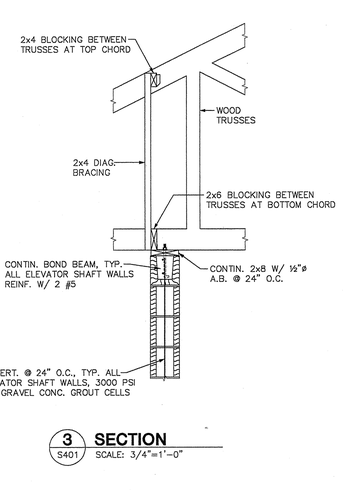
1 S401 SHEAR PANEL TRUSS "C" & "D" DETAIL
SCALE: 3/8"=1'-0"



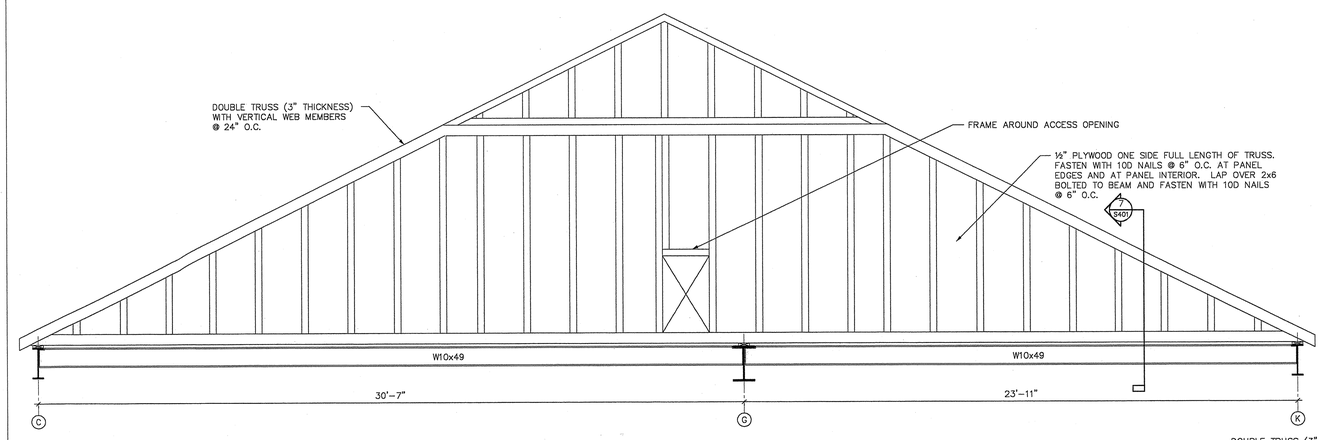
2 S401 SECTION
SCALE: 3/4"=1'-0"



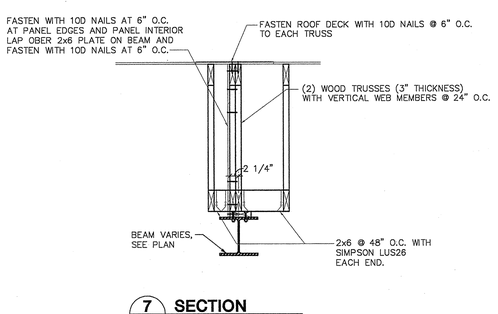
4 S401 ATTIC TRUSS DETAIL
SCALE: 3/8"=1'-0"



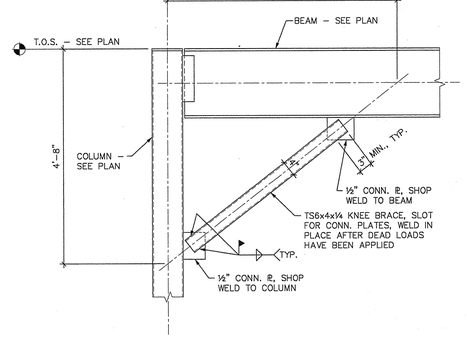
3 S401 SECTION
SCALE: 3/4"=1'-0"



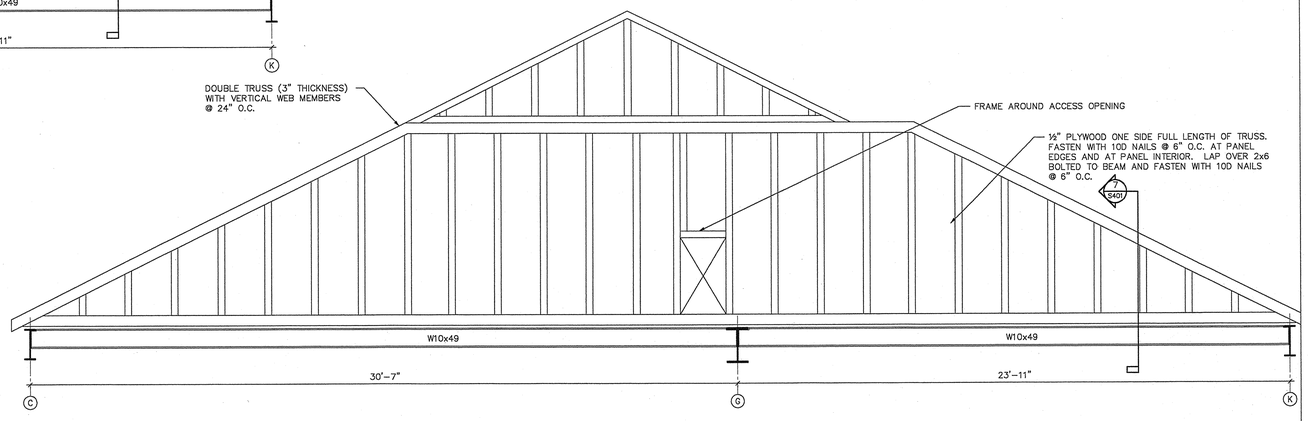
5 S401 SHEAR PANEL TRUSS "A" DETAIL
SCALE: 3/8"=1'-0"



7 S401 SECTION
SCALE: 3/4"=1'-0"



8 S401 KNEE BRACE "KB1" DETAIL
SCALE: 3/4"=1'-0"



6 S401 SHEAR PANEL TRUSS "B" DETAIL
SCALE: 3/8"=1'-0"

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NORTH CAROLINA PROFESSIONAL 8246 ENGINEER SEAL
4/30/02
DATE
Walter Dale Thompson

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: ROOF FRAMING DETAILS

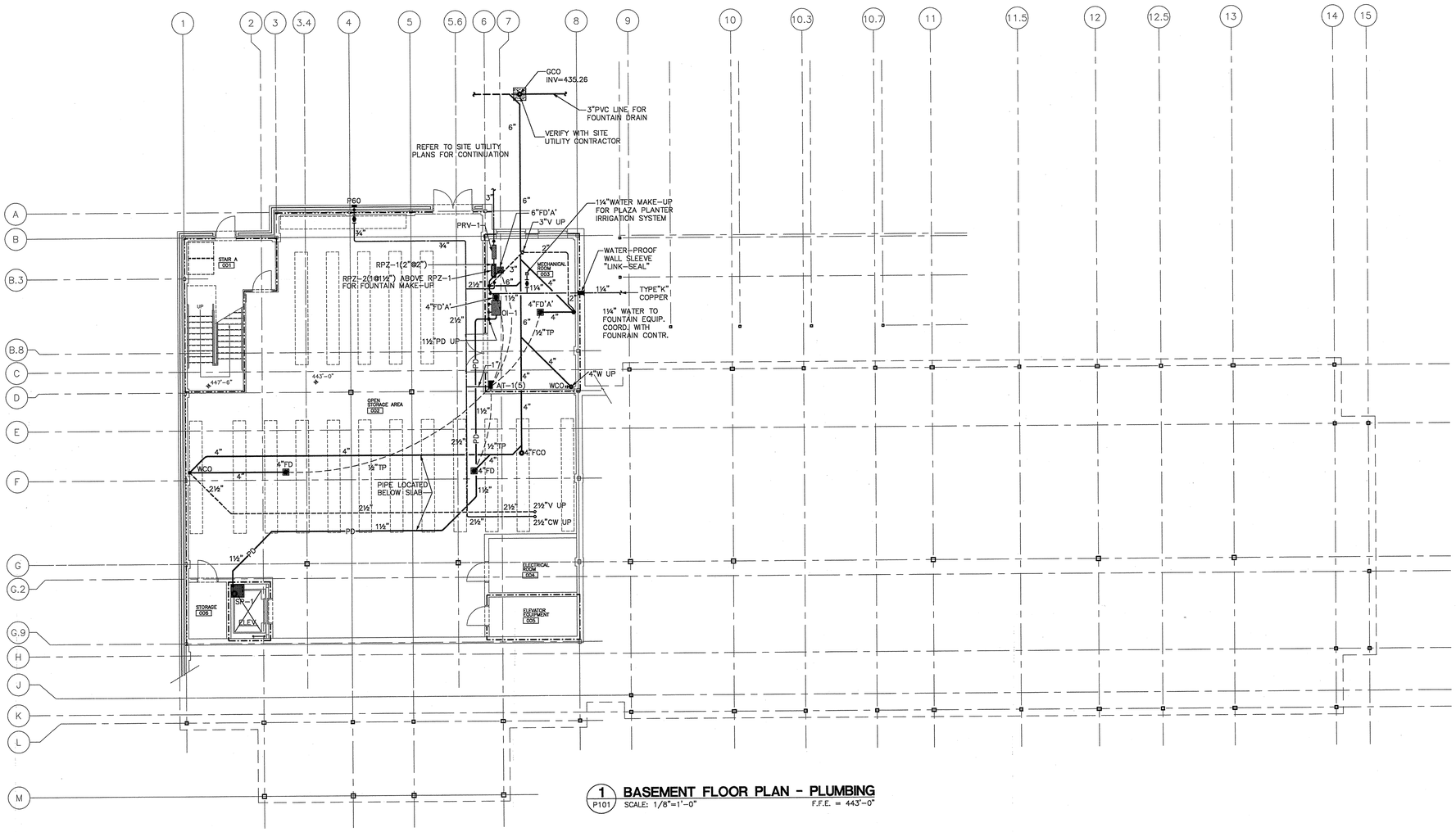
Division President: JACK ARMFIELD, P.E.
Job Captain: W. DALE THOMPSON, P.E.
Drawn By: W. DALE THOMPSON, P.E.
Date Drawn: 2/07/02
Drawing File Name: 5760S401
Revisions
No ____ Date ____
Issue Date: 04/30/02

Project Number: 511576000

Sheet Of 8
S401

CONSTRUCTION DOCUMENTS

25-65
Number 3
My Drawing



1 BASEMENT FLOOR PLAN - PLUMBING
P101 SCALE: 1/8"=1'-0" F.F.E. = 443'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 025997 ENGINEER DAVID L. CAIN

Project
Holly Springs Town Hall
Holly Springs, North Carolina

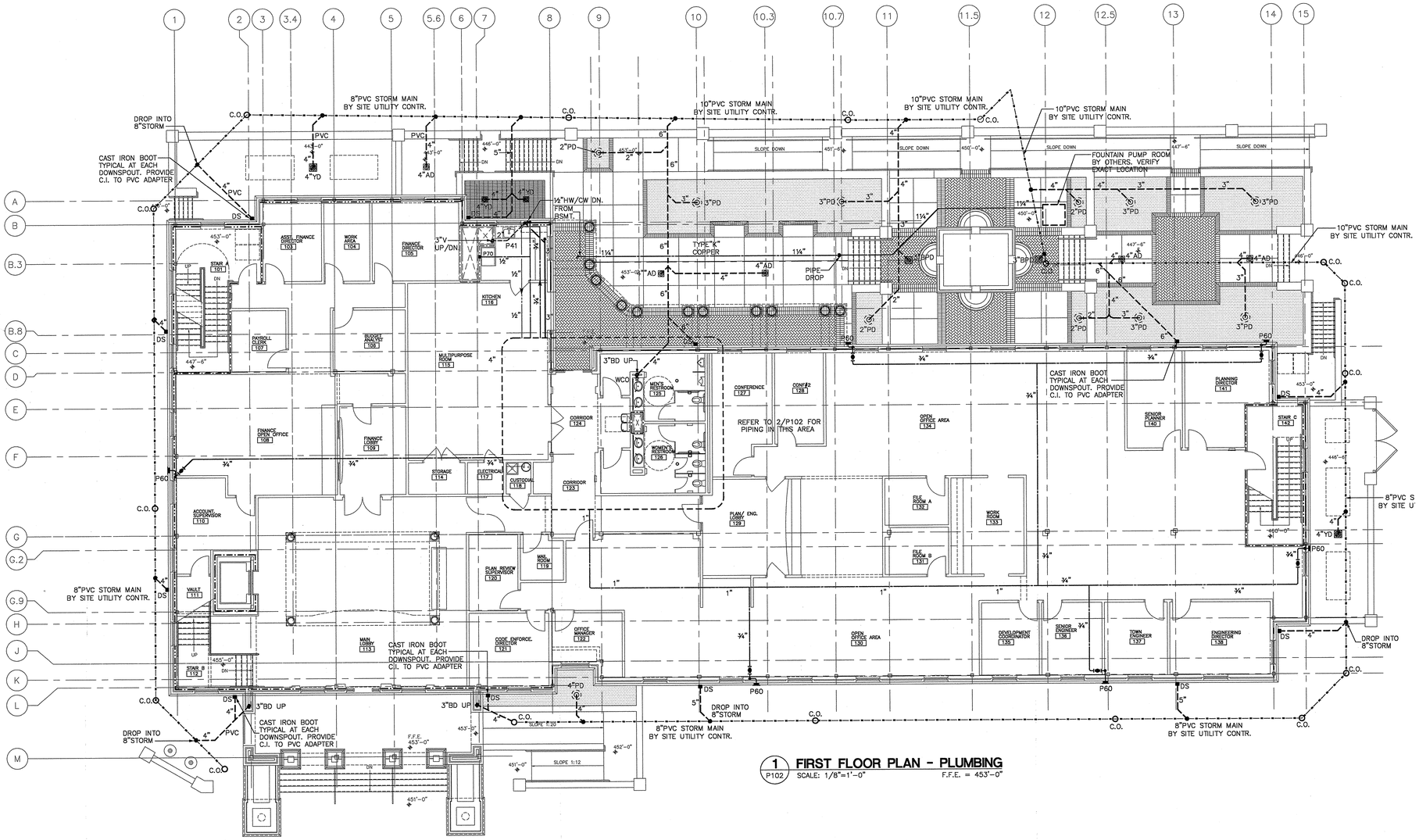
Sheet Title
BASEMENT FLOOR PLAN - PLUMBING

Division President
Jim Harris, AIA
Job Captain
Greg Perry, P.E
Drawn By
Ralph Ferrell, CPD
Date Drawn
04/30/2002
Drawing File Name
F/CEP/CIV/5760/PLBG/P101
Revisions
No ____ Date ____
Issue Date: April 30, 2002

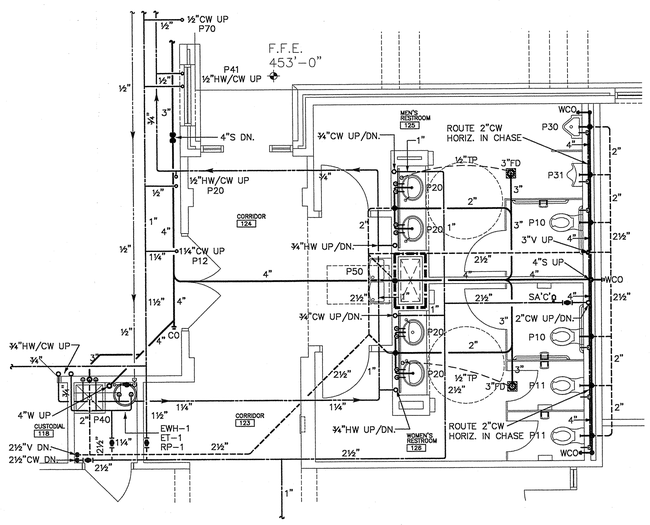
Project Number
511576000

Sheet P101 Of 5

CONSTRUCTION DOCUMENTS



1 P102 **FIRST FLOOR PLAN - PLUMBING**
SCALE: 1/8"=1'-0" F.F.E. = 453'-0"



2 P102 **PARTIAL FIRST FLOOR PLAN PLUMBING - CORE TOILET**
SCALE: 1/4"=1'-0"

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Project: Holly Springs Town Hall
Holly Springs, North Carolina

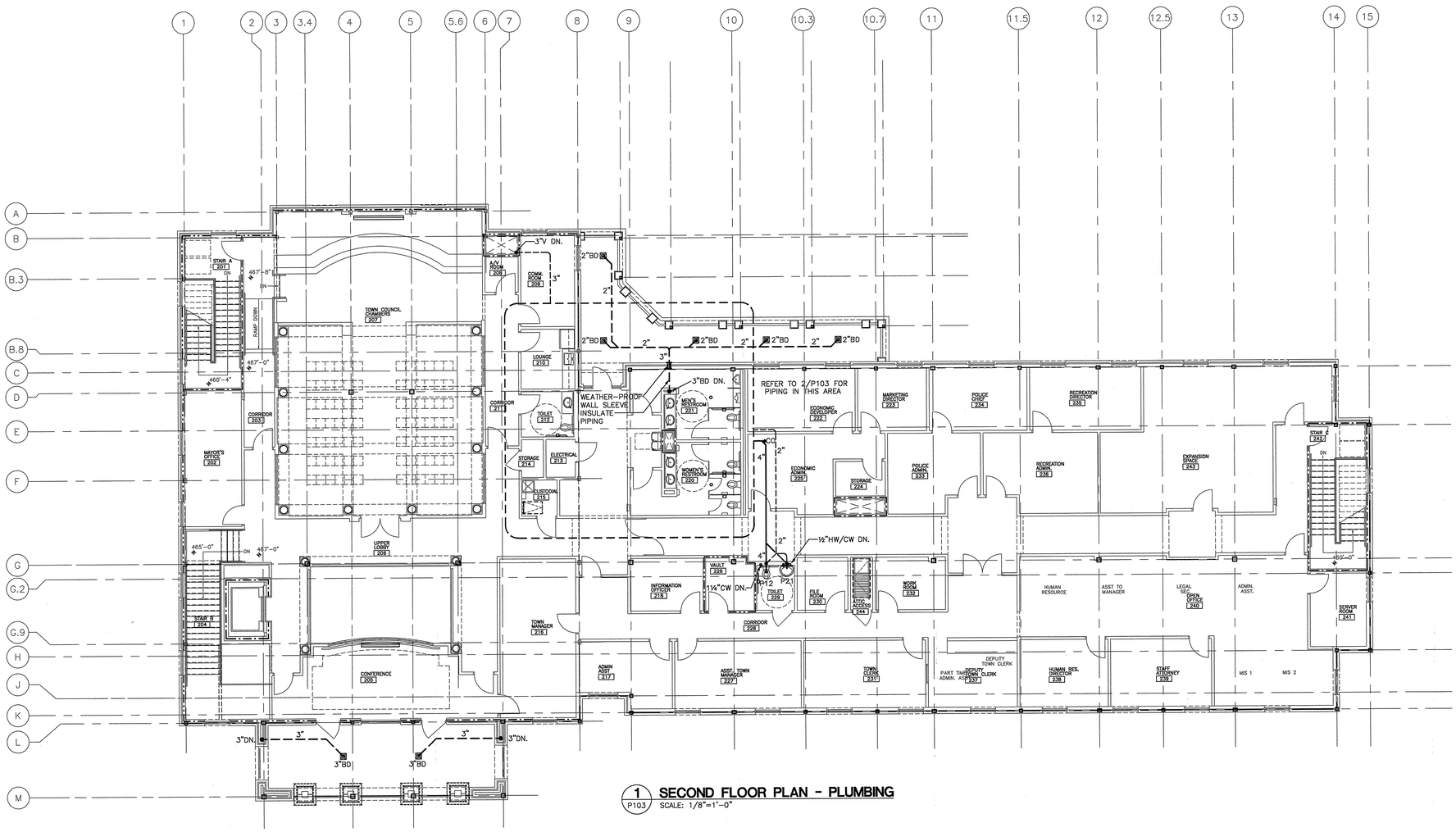
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Division President: Jim Harris, AIA
Job Captain: Greg Perry, P.E
Drawn By: Ralph Ferrell, CPD
Date Drawn: 04/30/2002
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Revisions
No ____ Date ____
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Project Number: 511576000

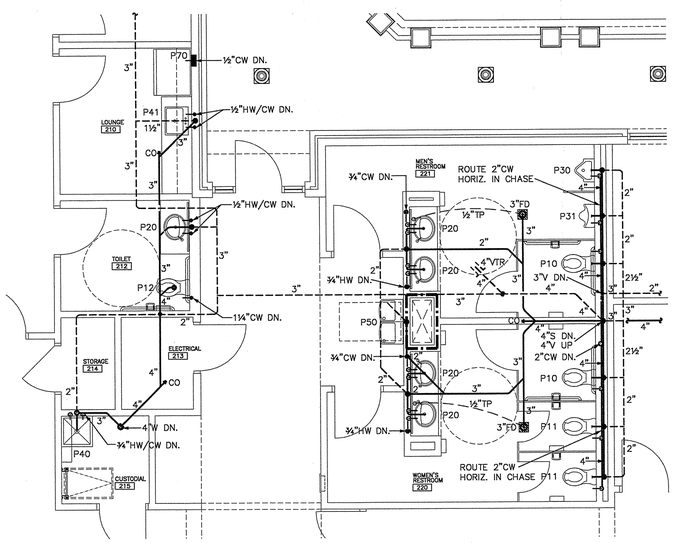
Sheet: P102 Of 5

CONSTRUCTION DOCUMENTS



1 P103 SECOND FLOOR PLAN - PLUMBING

SCALE: 1/8"=1'-0"



2 P103 PARTIAL SECOND FLOOR PLAN PLUMBING - CORE TOILET

SCALE: 1/4"=1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 026895 ENGINEER DAVID L. CAIN

Project
Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title
SECOND FLOOR PLAN - PLUMBING

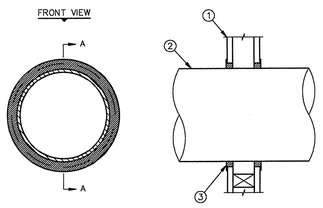
Division President
Jim Harris, AIA
Job Captain
Greg Perry, P.E
Drawn By
Ralph Ferrell, CPD
Date Drawn
04/30/2002
Drawing File Name
F/CEP/CIV/5760/PLBG/P103
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet P103 Of 5

CONSTRUCTION DOCUMENTS

U.L. SYSTEM NO. WL1052
METAL PIPE THROUGH 1-HR. GYPSUM WALL
F RATING = 1-HR.
T RATING = 0-HR.

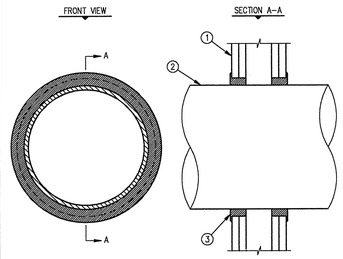


1. 1-HR. FIRE-RATED GYPSUM WALL ASSEMBLY.
2. 10" DIA. (OR SMALLER) STEEL PIPE, 4" DIA. (OR SMALLER) COPPER PIPE, EMT OR CONDUIT.
3. MIN. 5/8" DEPTH HILTI FS 601.

NOTE : NOMINAL ANNULAR SPACE OF 1/4" TO 1" REQUIRED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1054
METAL PIPE THROUGH 2-HR. GYPSUM WALL
F RATING = 2-HR.
T RATING = 0-HR.

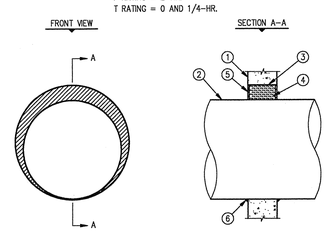


1. 2-HR. FIRE-RATED GYPSUM WALL ASSEMBLY.
2. 10" DIA. (OR SMALLER) STEEL PIPE (SCHEDULE 10 OR HEAVIER), OR 4" DIA. (OR SMALLER) COPPER PIPE, EMT OR STEEL CONDUIT.
3. MINIMUM 1-1/4" DEPTH HILTI FS 601 FIRESTOP SEALANT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 12-1/2".
2. ANNULAR SPACE = MIN. 1/4" TO MAX. 1".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ1021
STEEL/COPPER PIPE THROUGH CONCRETE OR
CONCRETE BLOCK WALL
F RATING = 2-HR.
T RATING = 0 AND 1/4-HR.

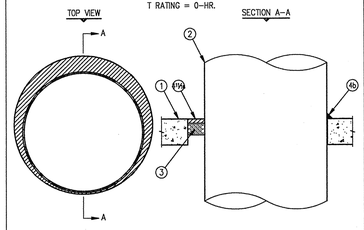


1. WALL ASSEMBLY :
   A. MINIMUM 5" THICK CONCRETE WALL.
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. 17-1/4" DIA. (OR SMALLER) STEEL PIPE OR 4" DIA. (OR SMALLER) COPPER PIPE.
3. NO. 8 STEEL WIRE MESH RECESSED 1/8" BELOW EACH WALL SURFACE (FOR HOLLOW BLOCK WALLS ONLY).
4. MINIMUM 4-1/2" THICKNESS FLEXIBLE URETHANE SHEET, (MIN. 4 PCF DENSITY).
5. MINIMUM 1/4" DEPTH HILTI FS 605 FIRESTOP SEALANT.
6. 1/2" BEAD HILTI FS 605 SEALANT AT POINT OF CONTACT.

NOTES : 1. ANNULAR SPACE = MIN. 0", MAX. 2-3/4".
2. T RATING = 1/4-HR. WHEN STEEL PIPE IS USED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

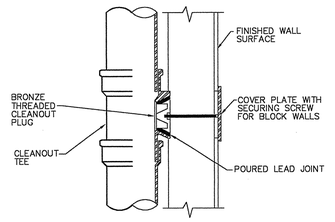
U.L. SYSTEM NO. CAJ1156
21" STEEL PIPE THROUGH CONCRETE FLOOR OR WALL
F RATING = 3-HR.
T RATING = 0-HR.



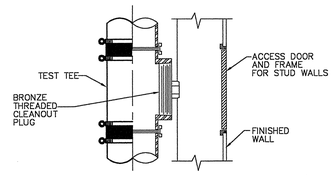
1. FLOOR OR WALL ASSEMBLY :
   A. MIN. 4-1/2" THICK LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE.
   B. MIN. 8" CONCRETE BLOCK WALL.
2. 21" DIA. (OR SMALLER) STEEL PIPE.
3. MIN. 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
4. A. MIN. 3/4" DEPTH HILTI FS 605.
   B. MIN. 1/2" BEAD HILTI FS 605 AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING 27".
2. ANNULAR SPACE 0" TO MAXIMUM 3".
3. WALLS REQUIRE 3/4" DEPTH OF HILTI FS 605 ON BOTH SIDES. IN HOLLOW BLOCK WALLS, USE STEEL WIRE MESH OR STEEL SLEEVE TO AID INSTALLATION.

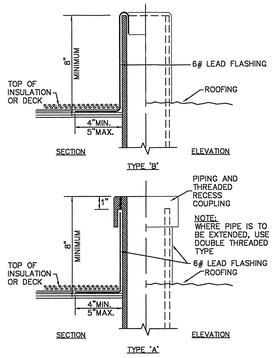
SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.
HILTI, INC. TULSA, OK 1-800-879-8000



HUB AND SPIGOT WITH COVER PLATE

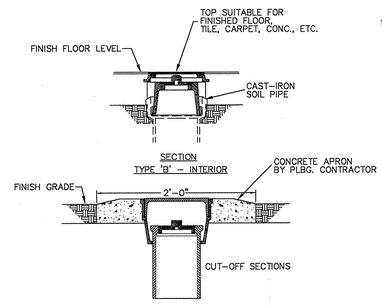


NO-HUB WITH ACCESS COVER

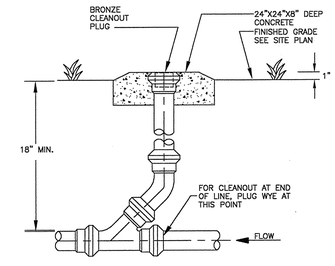


8 P201 VENT THRU ROOF DETAIL
NO SCALE

7 P201 WALL CLEANOUT DETAIL
NO SCALE

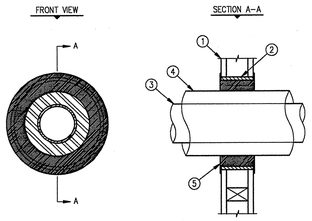


9 P201 CLEANOUT DETAIL
NO SCALE



10 P201 GRADE CLEANOUT DETAIL
NO SCALE

U.L. SYSTEM NO. WL5022
INSULATED METAL PIPE THROUGH A SLEEVE IN 1-HR. GYPSUM WALL
F RATING = 1-HR.
T RATING = 3/4-HR.

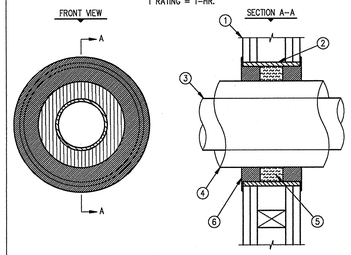


1. WALL ASSEMBLY :
   1-HR. FIRE-RATED GYPSUM WALL.
2. 9" DIA. (OR SMALLER) SCHEDULE 40 STEEL SLEEVE.
3. 4" DIA. (OR SMALLER) STEEL PIPE (SCHEDULE 40 OR HEAVIER), COPPER PIPE, EMT OR STEEL CONDUIT.
4. MAX. 1-1/2" THICK (MIN. 3.5 PCF) GLASS FIBER INSULATION WITH AN ALL SERVICE JACKET.
5. MIN. 3-3/4" DEPTH HILTI FS 611A FIRESTOP SEALANT.

NOTE : NOMINAL ANNULAR SPACE OF 3/4" REQUIRED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL5024
INSULATED METAL PIPE THROUGH A SLEEVE IN 2-HR. GYPSUM WALL
F RATING = 2-HR.
T RATING = 1-HR.

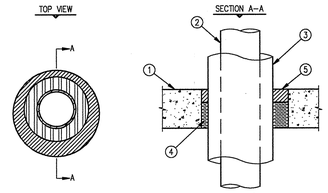


1. WALL ASSEMBLY :
   2-HR. FIRE-RATED GYPSUM WALL.
2. 10" DIA. (OR SMALLER) SCHEDULE 40 STEEL SLEEVE.
3. 4" DIA. (OR SMALLER) STEEL PIPE (SCHEDULE 40 OR HEAVIER), COPPER PIPE, EMT OR STEEL CONDUIT.
4. MAX. 1-1/2" THICK (MIN. 3.5 PCF) GLASS FIBER INSULATION WITH AN ALL SERVICE JACKET.
5. MINIMUM 2" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY).
6. MINIMUM 1-1/2" DEPTH HILTI FS 611A FIRESTOP SEALANT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 10".
2. ANNULAR SPACE = 1-7/16".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. CAJ5045
INSULATED METAL PIPE THROUGH 2-HR. CONCRETE
FLOOR OR WALL
F RATING = 2-HR.
T RATING = 3/4 AND 1-HR.

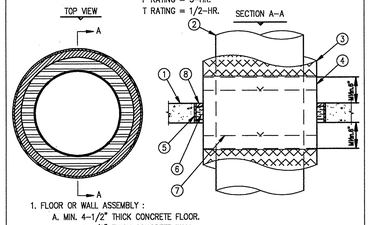


1. CONCRETE FLOOR OR WALL ASSEMBLY :
   A. MIN. 4-1/2" THICKNESS LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE.
   B. MIN. 8" CONCRETE BLOCK.
2. 6" DIA. (OR SMALLER) STEEL PIPE (SCHEDULE 10 OR HEAVIER), OR 4" DIA. (OR SMALLER) COPPER PIPE, EMT OR STEEL CONDUIT.
3. MAX. 1-1/2" THICK FIBERGLASS INSULATION WITH AN ALL SERVICE JACKET.
4. MIN. 3" THICKNESS MINERAL WOOL BACKING (MIN. 4 PCF DENSITY).
5. MIN. 1-1/2" DEPTH HILTI FS 611A FIRESTOP SEALANT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 12".
2. ANNULAR SPACE REQUIRED = MIN. 1/2", TO MAX. 2-3/8".
3. WHEN STEEL PIPE OR CONDUIT IS USED, T RATING = 1-HR.
4. WHEN COPPER TUBE OR PIPE IS USED, T RATING = 3/4-HR.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

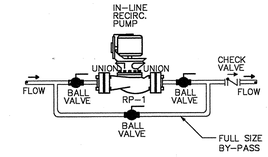
U.L. SYSTEM NO. CAJ5061
INSULATED PIPE THROUGH SLEEVE
F RATING = 3-HR.
T RATING = 1/2-HR.



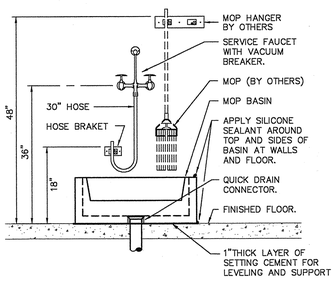
1. FLOOR OR WALL ASSEMBLY :
   A. MIN. 4-1/2" THICK CONCRETE FLOOR.
   B. MIN. 4-1/2" THICK CONCRETE WALL.
   C. MIN. 8" CONCRETE BLOCK WALL.
2. 20" DIA. (OR SMALLER) STEEL PIPE, OR 6" DIA. (OR SMALLER) COPPER PIPE.
3. MAX. 3" THICK GLASS FIBER INSULATION.
4. MAX. 3" THICK MINERAL FIBER PIPE INSULATION (SEE NOTE BELOW).
5. OPTIONAL : 30" DIA. (OR SMALLER) STEEL SLEEVE.
6. MIN. 3" DEPTH MINERAL WOOL (MIN. 4 PCF DENSITY).
7. 18 GA. STEEL TIE WIRE.
8. MIN. 3/4" DEPTH HILTI FS 605 FIRESTOP SEALANT.

NOTES : 1. PAROC 1200 MINERAL FIBER PIPE INSULATION TO EXTEND 6" ABOVE AND BELOW FLOOR. SECURE WITH TIE WIRE AS SHOWN. COVER WITH A U.L. CLASSIFIED ALL SERVICE JACKET AND PROPERLY JOIN IT WITH EXISTING INSULATION.
2. ANNULAR SPACE = MIN. 1", MAX. 2-1/4".
3. WALLS REQUIRE 3/4" DEPTH OF HILTI FS 605 ON BOTH SIDES.

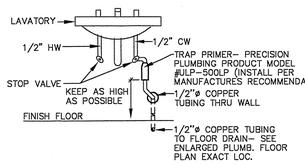
SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000



11 P201 CIRCULATING PUMP DETAIL
NO SCALE



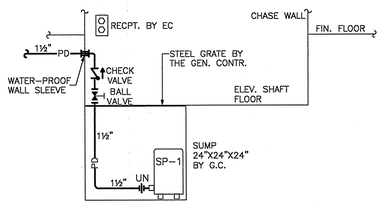
2 P201 MOP SERVICE BASIN DETAIL (P40)
NO SCALE



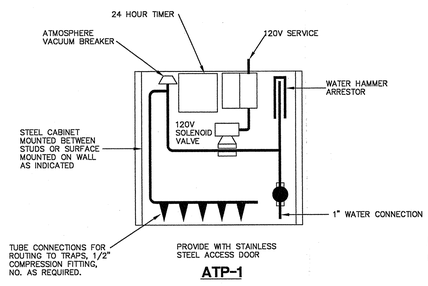
NOTE : THIS IS ONE APPROVED METHOD FOR TRAP PRIMING OF THE FLOOR DRAIN. OTHER METHODS MAY BE USED, I.E., TAILPIECE TRAP PRIMER CONNECTION FROM LAVATORY OR FROM FLUSH VALVE FITTING.

3 P201 LAVATORY TRAP PRIMER DETAIL
NO SCALE

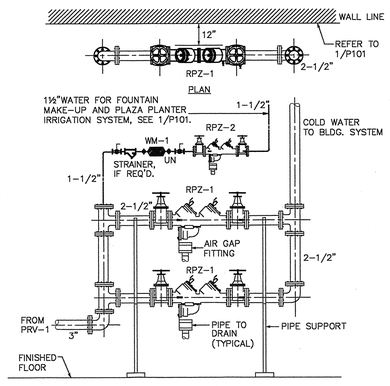
1 P201 PIPE SLEEVE DETAILS
NO SCALE



5 P201 ELEVATOR SUMP DETAIL
NO SCALE



6 P201 AUTOMATIC TRAP PRIMER DETAIL
NO SCALE



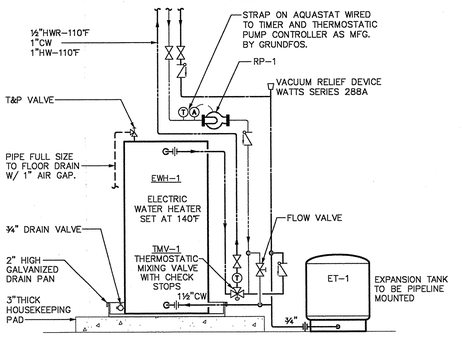
4 P201 BACKFLOW PREVENTER DETAIL
NO SCALE

INSULATION SCHEDULE ③											
DESIGNATION	EQUIPMENT OR SYSTEM SERVED	TYPE ①			JACKETING CLASS ②			THICKNESS IN				
		INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	NOMINAL PIPE SIZE IN				DUCTWORK
								1/2 - 1 1/2	2 - 4	5 - 6	8 & UP	④
A	DOMESTIC WATER											
	DOM. COLD WATER	FP	FP	----	0	3	----	1/2	1	----	----	
	DOM. HOT WATER	FG	FG	----	1	3	----	1	1-1/2	----	----	
	HOT WATER RETURN	FG	FG	----	1	3	----	1/2	----	----	----	
B	HORIZONTAL ROOF LEADER PIPING	FG	FG	----	1		----	1	1	1	1	

① FG -- FIBROUS GLASS
FP -- FLEXIBLE FOAMED PLASTIC
UR -- URETHANE
CB -- CALCIUM SILICATE

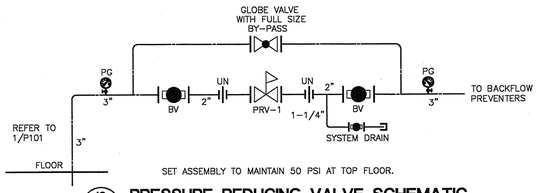
② 0 -- NONE
1 -- ALL SERVICES
2 -- ALUMINUM
3 -- CANVAS
4 -- POLYVINYL CHLORIDE
5 -- ALUMINUM FOIL / MYLAR LAMINATE
6 -- STAINLESS STEEL
7 -- ALUMINUM
8 -- EPDM

③ INSULATION TYPE JACKET & THICKNESS FOR EQUIPMENT SHALL MATCH THE CORRESPONDING PIPING SYSTEM'S PARAMETERS LISTED FOR: EQUIPMENT ROOMS, NORMAL PIPE SIZE 8" AND LARGER



12 P201 WATER HEATER DETAIL (EWH-1)
NO SCALE

NOTE : PIPING SCHEMATIC SIMILAR FOR EWH-2.



SET ASSEMBLY TO MAINTAIN 50 PSI AT TOP FLOOR.

13 P201 PRESSURE REDUCING VALVE SCHEMATIC
NO SCALE

BV BALL VALVE 100% FULL PORT
UN UNION
PG PRESSURE GAUGE

NOTE : ASSEMBLY MAY BE DELETED IF SITE PRESSURE DOES NOT EXCEED 80 PSI. UNIT MAY BE INSTALLED USING FULL SIZE BY-PASS FOR ANTICIPATED FUTURE AREA WATER PRESSURE INCREASE.

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NORTH CAROLINA PROFESSIONAL SEAL 025986 ENGINEER DAVID J. CAIN

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: PLUMBING DETAILS

Division President
Jim Harris, AIA
Job Captain
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Drawn By
Ralph Ferrell, CPD
Date Drawn
04/30/2002
Drawing File Name
F/CEP/CIV/5760/PLBG/P201
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000
Sheet Of 5
P201

CONSTRUCTION DOCUMENTS

PLUMBING FIXTURE SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	CW	HW	SPECIFICATION
P10	WATER CLOSET A.D.A. COMPLIANT SEAT @ 17"–19" AFF	4"	2"	1"	–	WALL HUNG VITREOUS CHINA ELONGATED WITH J.R. SMITH OR EQUAL CARRIER. BOWL SHALL BE EQUAL TO KOHLER MODEL K–4330 WITH OLSONITE 10CC WHITE OPEN FRONT HEAVY DUTY SEAT AND SLOAN MODEL 111–ADA–VB 1.6 GPF FLUSH VALVE. INSTALL FLUSH VALVE HANDLE ON WIDE SIDE OF STALL.
P11	WATER CLOSET	4"	2"	1"	–	WALL HUNG VITREOUS CHINA ELONGATED WITH J.R. SMITH OR EQUAL CARRIER. BOWL SHALL BE EQUAL TO KOHLER MODEL K–4330 WITH OLSONITE 10CC WHITE OPEN FRONT HEAVY DUTY SEAT AND SLOAN MODEL 111–VB 1.6 GPF FLUSH VALVE.
P12	WATER CLOSET A.D.A. COMPLIANT SEAT @ 17"–19" AFF	4"	2"	1"	–	FLOOR MOUNTED VITREOUS CHINA ELONGATED WITH TOP SPUD. BOWL SHALL BE EQUAL TO KOHLER MODEL K–4302 WITH OLSONITE 10CC WHITE OPEN FRONT HEAVY DUTY SEAT AND SLOAN MODEL 111–VB 1.6 GPF FLUSH VALVE.
P20	LAVATORY A.D.A. COMPLIANT	2"	1–1/2"	1/2"	1/2"	SELF–RIMMING BUILT–IN OVAL 20"X17" VITREOUS CHINA WITH GRID WASTE. BOWL SHALL BE EQUAL TO KOHLER MODEL K–2196–4 WITH DELTA 541–WF FAUCET AND McGUIRE PF 2125–WC SUPPLIES AND OFF–SET WASTE ASSEMBLY. IF LAVATORIES ARE PROVIDED WITH FRONTAL SKIRT, PROVIDE STANDARD McGUIRE TRIM.
P21	LAVATORY	2"	1–1/2"	1/2"	1/2"	VITREOUS CHINA WALL MOUNTED PEDISTAL BOWL WITH 4" CENTERS. SIZE 27"X19" EQUAL TO KOHLER K–2221–4 WITH DELTA 541–WF FAUCET AND KOHLER K–7605–P SUPPLIES WITH STOPS AND K–8998 P–TRAP.
P30	URINAL A.D.A. COMPLIANT RIM 17" AFF	2"	1–1/2"	3/4"	–	WALL HUNG VITREOUS CHINA EXTENDED LIP. BOWL SHALL BE EQUAL TO AMERICAN STANDARD 6541.132 WITH SLOAN 186–1–ADA–VB 1.0 GPF FLUSH VALVE AND WADE WALL SUPPORT CARRIER.
P31	URINAL	2"	1–1/2"	3/4"	–	WALL HUNG VITREOUS CHINA EXTENDED LIP. BOWL SHALL BE EQUAL TO AMERICAN STANDARD 6541.132 WITH SLOAN 186–1–VB 1.0 GPF FLUSH VALVE AND WADE WALL SUPPORT CARRIER.
P40	MOP RECEPTOR	3"	1–1/2"	3/4"	3/4"	FLOOR MOUNTED TERRAZZO 24"X24"X12". BOWL SHALL BE EQUAL TO FIAT TSB–200 WITH, SPEAKMAN SC–5811–RCP SERVICE SINK FAUCET, #832–AA HOSE & HOSE BRACKET, PLACE ON 1" THICK LAYER OF SETTING CEMENT FOR SUPPORT AND LEVELING.
P41	KITCHEN STYLE SINK A.D.A. COMPLIANT	2"	1–1/2"	1/2"	1/2"	BUILT–IN SINGLE COMPARTMENT STAINLESS STEEL SINK. BOWL SHALL BE EQUAL TO JUST MODEL SL–ADA–1921–A–GR WITH J–ADA–35 CUP DRAIN. PROVIDE WITH McGUIRE "PROWRAP" OFF–SET WASTE AND SUPPLIES WITH STOPS WITH DELTA MODEL 472 FAUCET.
P50	ELECTRIC WATER COOLER A.D.A. COMPLIANT	2"	1–1/2"	1/2"	–	DUAL LEVEL EQUAL TO ELKAY MODEL EBFATL–8–G, COLOR BY ARCH. STOP & TRAP WITHIN CABINET. PROVIDE CARRIER AS REQ'D. RECEPTACLE BY E.C.
P61	HOSE BIBB	–	–	1/2"	–	EQUAL TO WOODFORD "26" CHROME PLATED WITH VACUUM BREAKER. MOUNT 1'–3" ABOVE FINISHED FLOOR BELOW LAVATORY. HOSE BIBB MAY BE DELETED IF NOT REQUIRED BY CODE OR OWNER.
P60	WALL HYDRANT	–	–	3/4"	–	EQUAL TO WOODFORD "B67" CHROME PLATED WITH VACUUM BREAKER. MOUNT 1'–6" ABOVE FINISHED GRADE.
P70	ICW MAKER/COFFEE MAKER CONNECTION BOX	–	–	1/2"	–	SPACE SAVER DESIGN FOR ICE/COFFEE MAKER HOOK–UP EQUAL TO GUY–GRAY MODEL BIM875. PROVIDE WITH AQUA–PURE MODEL AP510 WATER FILTER MOUNTED WITHIN CASEWORK. ROUTE FILTERED WATER TO EACH UNIT.

PLUMBING LEGEND

SYMBOL	ABBREVIATION	DESCRIPTION
	W , WASTE	WASTE OR SOIL PIPING
	V , VENT	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RETURN PIPING
	VTR	VENT THRU ROOF
	BV	BALL VALVE
	CV	CHECK VALVE
	UN	UNION
	SA	SHOCK ABSORBER
	TP	TRAP PRIMER
	CO	CLEANOUT
	PNO	FIXTURE DESIGNATION
	FD	FLOOR DRAIN
PD	PD	PLANTER DRAIN
YD	YD	YARD DRAIN
AD	AD	AREAWAY DRAIN
BD	BD	BALCONY DRAIN
BPD	BPD	BRICK PAVER DRAIN

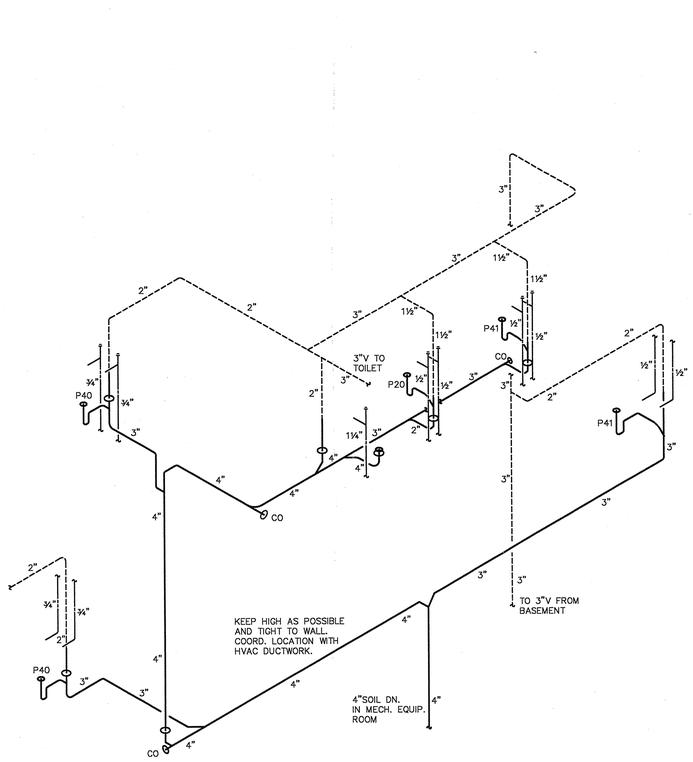
PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	CW	HW	SPECIFICATION
EWH–1	ELECTRIC WATER HEATER	–	–	1"	1"	EQUAL TO RUUD MODEL ELD52, 50 GALLON CAPACITY, 208V, 1ø, 4.5 KW, WITH STAND. SAFETY DEVICES.
ET–1	THERMAL EXPANSION ABSORPTION TANK	–	–	1/2"	–	EQUAL TO RHEEM MODEL RRT–12.
FD	FLOOR DRAIN	3"	1–1/2"	–	–	EQUAL TO J.R. SMITH 2010–06–P050 CAST IRON BODY WITH "NB" STRAINER.
FD'A'	FLOOR DRAIN	4", 6"	2", 3"	–	–	EQUAL TO J.R. SMITH 2110–S–P050 CAST IRON BODY WITH "NB" STRAINER.
RP–1	HOT WATER RECIRCULATING PUMP	–	–	–	1/2"	EQUAL TO GRUNDFOS UP15–42SU, ALL BRONZE, 1/12 HP, 115V, 1ø.
TMV–1	THERMOSTATIC TEMPERING VALVE	–	–	3/4"	3/4"	EQUAL TO SYMMONS MODEL NO. 5–130.
TP–1	TRAP PRIMER	–	–	1/2"	–	EQUAL TO PRECISION PLUMBING PRODUCTS "PR–500".
ATP–1	AUTOMATIC TRAP PRIMER	–	–	3/4"	–	EQUAL TO PRECISION PLUMBING PRODUCTS "PT–6", ONE PORT CAPPED. 120 VOLT WITH 14" X 16" PRIME COATED DOOR.
RPZ–1	REDUCED PRESSURE BACKFLOW PREVENTER	IW@FD	–	2 @ 2"	–	EQUAL TO FEBCO MODEL NO. 825Y WITH "AGD–Y" AIR GAP DRAINAGE CONE. MOUNT 2'–0" ABOVE FINISHED FLOOR. (2) UNITS IN PARALLEL OPERATION.
RPZ–2	REDUCED PRESSURE BACKFLOW PREVENTER	IW@FD	–	1–1/2"	–	EQUAL TO FEBCO MODEL NO. 825Y WITH "AGD–Y" AIR GAP DRAINAGE CONE. MOUNT 5'–0" ABOVE FINISHED FLOOR. SUPPLY FOR FOUNTAIN MAKE–UP.
SP–1	SUBMERSIBLE SUMP PUMP	2"	–	–	–	EQUAL TO GRUNDFOS SERIES "KP", 1/3 HP, 120 VOLT PLUG–IN.
PD	PLANTER DRAIN	2"	–	–	–	EQUAL TO J.R. SMITH 2671, NO TRAP.
PD'A'	PLANTER DRAIN	3"	–	–	–	EQUAL TO J.R. SMITH 2685–SSM, NO TRAP. LENGTH OF STANDPIPE AS REQ'D.
AD	AREAWAY DRAIN	4"	–	–	–	EQUAL TO J.R. SMITH 1412 WITH NICKEL BRONZE TOP, NO TRAP.
YD	YARD DRAIN	4"	–	–	–	EQUAL TO J.R. SMITH 2240, NO TRAP.
BD	BALCONY DRAIN	2", 3"	–	–	–	EQUAL TO J.R.SMITH 2010–F37, NO TRAP. TOP OF DRAIN RIM SET FLUSH WITH TOP OF CONCRETE DEAK. BRICK PAVERS SET ABOVE.
BPD	BRICK PAVER DRAIN	3"	–	–	–	EQUAL TO J.R.SMITH 2010–F38, NO TRAP. TOP OF DRAIN RIM SET FLUSH WITH TOP OF CONCRETE DECK. BRICK PAVERS SET ABOVE.
PRV–1	PRESSURE REDUCING VALVE	–	–	2"	–	EQUAL TO WATTS MODEL "223B". DELETE IF PRESSURE AT BUILDING IS LESS THAN 80 PSI.
WM–1	IRRIGATION SYSTEM WATER METER	–	–	1"	–	EQUAL TO HERSEY NIAGARA MODEL "OPMD" # 60298P005, READS IN GALLONS – TOTALIZING REGISTER. DELETE IF NOT REQUIRED FOR FOUNTAIN.

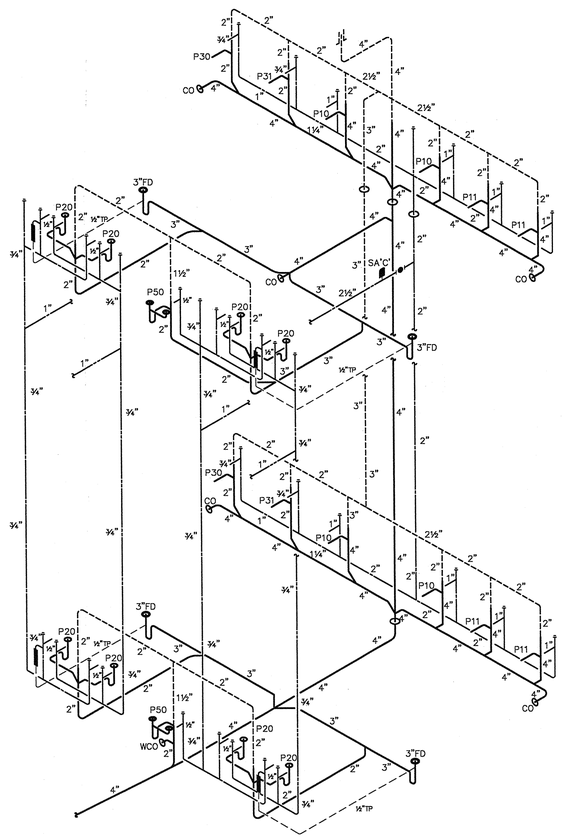
SHOCK ARRESTOR SCHEDULE

P.D.I. SIZE	FIXTURE UNITS	MANUFACTURER OR EQUAL
SA'A'	1 – 11	ZURN, SMITH, PPI, SIOUX–CHIEF
SA'B'	12 – 32	"
SA'C'	33 – 60	"
SA'D'	61 – 113	"
SA'E'	114 – 154	"
SA'F'	155 – 330	"

LOCATE SHOCK ARRESTORS IN AN ACCESSIBLE LOCATION, OR PROVIDE SIOUX–CHIEF SHOCK ARRESTORS ONLY.
PROVIDE SHOCK ARRESTORS AS INDICATED ON THE DRAWINGS.
SHOCK ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.



1 P301 **RISER SCHEMATIC @ MOP RECEPTOR AND LOUNGE AREA**
SCALE: NOT TO SCALE



2 P301 **RISER SCHEMATIC CORE TOILET GROUP**
SCALE: NOT TO SCALE

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NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 025986 ENGINEER DAVID A. CALE

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: LEGEND, SCHEDULE & RISER SCHEMATICS – PLUMBING

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Revisions
No ____ Date ____
Issue Date: April 30, 2002

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Sheet P301 Of 5

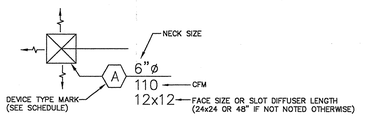
CONSTRUCTION DOCUMENTS

FIRE BARRIER PENETRATION SEALANT SYSTEM SCHEDULE

PENETRATION MATERIAL	MAXIMUM PENETRANT DIAMETER	CONSTRUCTION TYPE	U.L. LISTED SEALANT SYSTEM NUMBER (NOTE 8)
INSUL STEEL PIPE	30"	2 HR CONC. FLOOR	CAJ5002
INSUL STEEL PIPE	30"	1 OR 2 HR. CONC. OR CONC. BLK. WALL	CAJ5002
INSUL COPPER PIPE	4"	2 HR. CONC. FLOOR	CAJ5034
INSUL COPPER PIPE	4"	1 OR 2 HR. CONC. OR CONC. BLK. WALL	CAJ5034
INSUL STEEL PIPE	12"	1 OR 2 HR. STUD WALL	WL5001
INSUL COPPER PIPE	4"	1 OR 2 HR. STUD WALL	WL5001
UNINSUL. STEEL PIPE	12"	1 OR 2 HR. STUD WALL	WL1001
UNINSUL. COPPER PIPE	6"	1 OR 2 HR. STUD WALL	WL1001
STEEL CONDUIT	4"	1 OR 2 HR. STUD WALL	WL1001
UNINSUL. STEEL PIPE	20"	2 HR. CONC. FLOOR OR WALL	CAJ1001
UNINSUL. STEEL PIPE	6"	2 HR. CONC. FLOOR OR WALL	CAJ1001
STEEL CONDUIT	4"	2 HR. CONC. FLOOR OR WALL	CAJ1001

PIPE AND CONDUIT FIRE PENETRATION NOTES:

1. ALL PIPE AND CONDUIT PENETRATIONS THROUGH RATED PARTITIONS, WALLS OR FLOORS SHALL BE INSTALLED EXACTLY ACCORDING TO THE U.L. LISTED SYSTEM NUMBER DETAILS. SUBMIT THE PROPOSED U.L. SYSTEM NUMBERS AND DETAILS FOR APPROVAL PRIOR TO INSTALLATION.
2. PROVIDE SLEEVES IN ALL PIPE AND CONDUIT PENETRATIONS THROUGH 2-HOUR RATED GYPSUM BOARD/STUD PARTITIONS, IF APPLICABLE.
3. WHERE THE U.L. LISTED FIRE PENETRATION REQUIRES PIPE INSULATION, PROVIDE 1-INCH THICK, 3.5 PCF FIBROUS GLASS INSULATION FOR THE PENETRATION.
4. WHERE THE U.L. LISTED FIRE PENETRATION SYSTEM DOES NOT SHOW INSULATION AND INSULATION IS SPECIFIED, DELETE THE INSULATION AT THE FIRE PENETRATION. SEAL THE INSULATION EDGES, VAPOR-PROOF TO THE FIRE BARRIER AFTER THE FIRE STOPPING IS COMPLETED.
5. WHERE THE U.L. LISTED FIRE PENETRATION SYSTEM REQUIRES THICKER CONCRETE THAN IN PLACE, THIS CONTRACTOR SHALL PROVIDE THE ADDITIONAL CONCRETE IN THE VICINITY OF THE PENETRATION.
6. THE ANNULAR SPACE BETWEEN THE PIPING (INCLUDING INSULATION AS SPECIFIED) AND THE SLEEVE OR WALL IN 1 AND 2 HOUR WALLS SHALL NOT BE LARGER OR SMALLER THAN SHOWN ON THE U.L. SYSTEM LISTING.
7. SEE ARCHITECTURAL PLANS FOR RATED PARTITIONS AND RATINGS OF FLOOR CONSTRUCTIONS.
8. OR APPROVED EQUIVALENT SYSTEMS (SEE U.L. LISTING FOR "THROUGH PENETRATION FIRESTOP SYSTEMS (XHEZ)", LATEST REVISION)
9. REVIEW PROJECT SPECIFICATIONS AND BIDDING INSTRUCTIONS TO DETERMINE IF THE FIRE BARRIER PENETRATION SEALANT WORK IS PROVIDED UNDER THE MECHANICAL OR GENERAL CONTRACTS. UNLESS STATED OTHERWISE, PROVIDE UNDER THE MECHANICAL CONTRACT.



AIR DISTRIBUTION DEVICES KEY

NO SCALE

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION
A	LOUVERED FACE S/A DIFFUSER: METALAIRE 5500S-6 WITH OPPOSED BLADE DAMPER. NOMINAL 24"x24" PANEL SIZE. FRAME SUITABLE FOR LAY-IN T-BAR CEILING. STEEL CONSTRUCTION. NOTES 1,3,4,6&8 PROVIDE ROUND NECK OR SQUARE NECK AS REQUIRED BY THE APPLICATION -- SEE PLANS.
B	PERFORATED RETURN OR EXHAUST: METALAIRE 7650R-6; FRAME SUITABLE FOR LAY-IN T-BAR; NOMINAL 24"x24" PANEL SIZE. STEEL CONSTRUCTION. NOTES 1,3,6,7&8. PROVIDE OBD WHERE NOTED ON PLANS.
C	LINEAR SUPPLY PLENUM DIFFUSER METALAIRE PDN; FRAMES SUITABLE FOR T-BAR MOUNTING (2) 1" SLOTS LENGTHS SHOWN ON PLANS NOTES: 1,3,6&8
D	SAME AS 'A' EXCEPT FOR SURFACE MOUNTING IN HARD CEILINGS. NOTES 1,2,3,4,6&8.
E	RETURN OR EXHAUST REGISTER: METALAIRE RH; FRAME SUITABLE FOR SURFACE MOUNTING; WITH OBD; STEEL CONSTRUCTION. NOTES 1,2,3,5&8.
F	SAME AS TYPE 'B' EXCEPT FOR SURFACE MOUNTING; METALAIRE 7650R-1, NOTE 8
G	ADJUSTABLE SLOT DIFFUSER; METALAIRE 6100 TYPE 22 WITH SM FRAME SUITABLE FOR SURFACE MOUNTING, (2) 1" SLOTS. COMPLETE WITH HEMMED PLENUM. NOTES 1,3,6&8.
H	SUPPLY AIR REGISTER W/ SEMI-AIRFOIL BLADES: METALAIRE V4004SD; DOUBLE DEFLECTION WITH OPPOSED BLADE DAMPER (OBD). STEEL CONSTRUCTION; SUITABLE FOR SURFACE-MOUNTING. NOTES 1,3,5,6&8.
J	ADJUSTABLE SLOT DIFFUSER; METALAIRE 6100 TYPE 23 WITH SM FRAME SUITABLE FOR WALL MOUNTING, (2) 1" SLOTS. NOTES 3,6&8.
K	ADJUSTABLE SLOT DIFFUSER; METALAIRE 6100 TYPE 22 WITH SM FRAME SUITABLE FOR WALL MOUNTING, 72" LONG WITH (6) 1" SLOTS. NOTES 3,6&8.
L	ADJUSTABLE SLOT DIFFUSER USED AS RETURN; METALAIRE 6100 TYPE 23 WITH SM FRAME SUITABLE FOR WALL MOUNTING. 72" LONG WITH (6) 1" SLOTS. NOTES 3,6&8.

NOTES:

1. ALL CEILING (LAY-IN & SURFACE MOUNTED) DIFFUSERS, GRILLES & REGISTERS SHALL HAVE A BAKED OFF-WHITE ENAMEL FINISH.
2. PROVIDE ALUMINIUM CONSTRUCTION (MODEL RH) IN ALL TOILET ROOMS, LOCKER ROOMS AND SHOWER ROOMS
3. LISTED SIZE ON DRAWING IS NECK SIZE. FOR STYLE G, NECK SIZE LISTED IS EQUIVALENT TO OVAL FURNISHED.
4. DELETE O.B.D. IN TYPE 'A' SUPPLY AIR DIFFUSERS WHERE AIR TERMINAL UNITS (BOXES) SUPPLY ONLY ONE (1) DIFFUSER OR WHERE MANUAL VOLUME DAMPER IS LOCATED IN BRANCH DUCT TO DIFFUSER.
5. DELETE OPPOSED-BLADE DAMPERS AT DEVICES MOUNTED AT FIRE DAMPERS.
6. TRANSITION FROM DUCT SIZE TO NECK SIZE AS REQUIRED.
7. UNLESS OTHERWISE NOTED, ALL RETURN AIR GRILLES SHALL BE TYPE 'B' WITH 22X22 NECK.
8. EQUALS BY CARNES, KRUEGER, PRICE & TITUS.

SYMBOL AND ABBREVIATION LEGEND

MISCELLANEOUS SYMBOLS AND ABBREVIATIONS

- CTE — CONNECT TO EXISTING
- CONNECT TO EXISTING
- $ OR (S) — SWITCH
- $TOS — TIMED OVERRIDE SWITCH
- $ESS — EMERGENCY STOP SWITCH
- H — HUMIDISTAT OR SENSOR (SEE SPEC.)
- TNLL — NIGHT LOW LIMIT THERMOSTAT OR SENSOR (SEE SPEC.)
- T — TEMPERATURE SENSOR OR THERMOSTAT
- T — TEMPERATURE SENSOR (CONCEALED ADJUSTMENT) OR THERMOSTAT (WITH GUARD)
- MAV — MANUAL AIR VENT
- MC — MECHANICAL CONTRACTOR
- PC — PLUMBING CONTRACTOR
- EC — ELECTRICAL CONTRACTOR
- GC — GENERAL CONTRACTOR
- AFF — ABOVE FINISH FLOOR
- UH — UNIT HEATER
- HPDA — HIGH PRESSURE DRIP ASSEMBLY
- MPDA — MEDIUM PRESSURE DRIP ASSEMBLY
- LPDA — LOW PRESSURE DRIP ASSEMBLY
- EX. OR EXST. — EXISTING
- MVD — MANUAL VOLUME DAMPER
- REVISION NUMBER
- DETAIL OR SECTION NUMBER
- SHEET ON WHICH DETAIL OR SECTION APPEARS
- GRILLE, REGISTER OR DIFFUSER DESIGNATION
- 21x12 — RECTANGULAR DUCT SIZE
- L.21x12 — LINED RECT. DUCT (SHT. MTL. SIZE)
- 21/12 — FLAT-OVAL DUCT SIZE
- 12ø — ROUND DUCT SIZE (DIAMETER)
- S/A — SUPPLY AIR
- R/A — RETURN AIR
- E/A OR EXH. — EXHAUST AIR
- O/A — OUTSIDE AIR
- OED — OPEN END DUCT
- ASP — AIR SEPARATOR
- ET — EXPANSION TANK
- EWH — ELECTRIC WALL HEATER
- AHU — AIR HANDLING UNIT
- EF — EXHAUST FAN
- BCU — BLOWER COIL UNIT
- RMV — REMOVE; OR TO BE REMOVED
- FCU — FAN COIL UNIT
- FPB — FAN POWERED BOX
- VAV — VARIABLE AIR VOLUME BOX
- REF — RETURN EXHAUST FAN
- SF — SUPPLY FAN
- VF — VENTILATION FAN
- VFD — VARIABLE FREQUENCY DRIVE
- EAT — ENTERING AIR TEMPERATURE
- LAT — LEAVING AIR TEMPERATURE
- EWT — ENTERING WATER TEMPERATURE
- LWT — LEAVING WATER TEMPERATURE
- APD — AIR PRESSURE DROP
- WPD — WATER PRESSURE DROP
- AFS — AIR FLOW SENSOR
- CV — CONTROL VALVE
- COMB. STARTER & DISCONNECT SWITCH (NOTE 3)
- NON-FUSED DISCONNECT SWITCH (NOTE 3)
- FUSED DISCONNECT SWITCH (NOTE 3)

PIPING SYMBOLS

- HPS — HIGH PRESSURE STEAM (SUPPLY)
- HPR — HIGH PRESSURE RETURN
- MPS — MEDIUM PRESSURE STEAM (SUPPLY)
- MPR — MEDIUM PRESSURE RETURN
- LPS — LOW PRESSURE STEAM (SUPPLY)
- LPR — LOW PRESSURE RETURN
- PD — PUMP DISCHARGE (PUMPED COND. RETURN)
- BF — FEEDWATER OR BOILER FEED
- CF — CHEMICAL FEED
- BD — BLOWDOWN LINE
- CDWS — CONDENSER WATER SUPPLY (FROM TOWER)
- CDWR — CONDENSER WATER RETURN (TO TOWER)
- CHWS — CHILLED WATER SUPPLY
- CHWR — CHILLED WATER RETURN
- DTS — DUAL TEMPERATURE SUPPLY
- DTR — DUAL TEMPERATURE RETURN
- HWS — HOT WATER SUPPLY
- HWR — HOT WATER RETURN
- D — DRAIN LINE
- LPG — PROPANE GAS
- G — NATURAL GAS
- DOMESTIC COLD WATER (CW)
- A — COMPRESSED AIR
- V — VENT LINE TO ATMOSPHERE
- E — EXPANSION TANK LINE
- RL — REFRIGERANT LIQUID
- RS — REFRIGERANT SUCTION
- HG — REFRIGERANT HOT GAS
- GATE VALVE
- BALANCING VALVE, PLUG TYPE
- BALL VALVE
- PRESSURE REDUCING VALVE
- STEAM PRESS. REDUCING VALVE
- BUTTERFLY VALVE
- M — MOTOR OP. BUTTERFLY VALVE
- GLOBE VALVE
- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- SWING CHECK VALVE
- SILENT CHECK VALVE
- TRIPLE DUTY VALVE (T.D.V.)
- METERING & BALANCING FITTING (CIRCUIT SETTER)
- STRAINER WITHOUT BLOWDOWN VALVE
- "Y" PATTERN STRAINER WITH BLOWDOWN VALVE
- BASKET STRAINER
- UNION
- SAFETY OR PRESSURE RELIEF VALVE
- HOSE END BALL VALVE
- DIRECTION OF FLOW
- PITCH PIPE DOWN IN DIRECTION OF ARROW
- EJ — PIPE EXPANSION JOINT
- PIPE GUIDES
- PIPE ANCHOR
- OR — THERMOMETER
- PRESSURE GAUGE AND COCK
- PRESSURE GAUGE AND COCK WITH SNUBBER (PROVIDE FOR STEAM SERVICE)
- MAV — MANUAL AIR VENT (INSTALL AT ALL HIGH POINTS OF WATER PIPING SYSTEMS)
- FLEXIBLE PIPING CONNECTION
- FLOOR DRAIN (BY PLBG. CONTR.)
- HUB DRAIN (BY PLBG. CONTR.)
- ECCENTRIC REDUCER
- CONCENTRIC REDUCER
- PIPE TURNING DOWN
- PIPE TURNING UP
- TEE WITH BRANCH OFF TOP OF MAIN
- TEE WITH BRANCH OFF BOTTOM OF MAIN

DUCT SYSTEM SYMBOLS

- UP — RISE IN ELEVATION OF HORIZONTAL DUCTWORK IN DIRECTION OF AIRFLOW
- DN. — DROP IN ELEVATION OF HORIZONTAL DUCTWORK IN DIRECTION OF AIRFLOW
- M — MOTOR OPERATED DAMPER
- MANUAL VOLUME DAMPER
- P — DUCT MOUNTED STATIC PRESSURE SENSOR
- S — DUCT MOUNTED SMOKE DETECTOR - PROVIDED AND WIRED BY E.C.; INSTALLED BY M.C.
- CO_2 — DUCT MOUNTED CARBON DIOXIDE SENSOR
- FD — VERTICAL FIRE DAMPER
- AD — ACCESS DOOR ON SIDE OF DUCT - SEE SPECS
- ACCESS DOOR ON BOTTOM OF DUCT - SEE SPECS
- HL — HIGH LIMIT HUMIDISTAT
- HFSD — COMBINATION HORIZ. FIRE DAMPER/SMOKE DAMPER IN VERTICAL DUCT OR FLOOR OPENING
- HORIZONTAL FIRE DAMPER IN VERTICAL DUCT OR FLOOR OPENING
- RECTANGULAR DUCT WITH RADIUS ELBOW
- RECTANGULAR DUCT ELBOW WITHOUT TURNING VANES (NOTE 4)
- RECTANGULAR DUCT ELBOW WITH TURNING VANES (NOTE 4)
- SUPPLY OR O/A DUCT - TURNING UP (NOTE 4)
- RETURN/EXHAUST/RELIEF DUCT TURNING UP (NOTE 4)
- SUPPLY OR OUTSIDE AIR DUCT TURNING DOWN (NOTE 4)
- RETURN/EXHAUST/RELIEF DUCT TURNING DOWN (NOTE 4)
- XX x XX — TRANSFER OPENING CUT IN WALL ABOVE CEILING (SIZE AS NOTED)
- DUCT WITH LINER (NOT ALL LINED DUCTWORK IS INDICATED IN THIS MANNER. REFER TO GENERAL NOTES AND SPECIFICATIONS.)

NOTES:

1. NOT ALL ITEMS IN LEGEND MAY BE REQUIRED ON THIS PROJECT
2. ALL DUCT DIMENSIONS & NOMINAL PIPING (DIAMETER) SIZES ARE IN INCHES UNLESS INDICATED OTHERWISE.
3. SEE THE DRAWINGS, EQUIPMENT SCHEDULES, COORDINATION NOTES, AND THE SPECIFICATIONS REGARDING THE CONTRACT THAT SHALL PROVIDE THE STARTERS AND DISCONNECT SWITCHES.
4. PROVIDE TURNING VANES IN ALL RECTANGULAR SQUARE ELBOWS, UNLESS NOTED OTHERWISE. SEE THE GENERAL NOTES, DETAILS, AND SPECIFICATIONS.

GENERAL NOTES

1. BEFORE SUBMITTING SHOP DRAWINGS, VERIFY VOLTAGES AVAILABLE FOR MECHANICAL EQUIPMENT WITH ELECT. CONTRACTOR. VERIFY PROVISION OF ALL STARTERS & DISCONNECT SWITCHES.
2. ALL EQUIPMENT SHALL BE LABELED IN ACCORDANCE WITH SECTION 303 OF VOLUME III (MECHANICAL) OF THE N.C. STATE BUILDING CODE. ALL ELECTRICAL EQUIP. SHALL BE U.L. LISTED.
3. BEFORE ROUGHING-IN WALLS, THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND ARCHITECT, THE LOCATIONS OF ALL THERMOSTATS AND SWITCHES.
4. BEFORE FABRICATING ANY SHEET METAL DUCTWORK, COORDINATE LOCATION AND SIZE WITH PLUMBING PIPING, ELECTRICAL CONDUITS, RECESSED LIGHT FIXTURES, SPRINKLER PIPES, ETC. PLANS ARE SCHEMATIC AND ARE NOT SHOP DRAWINGS. ALSO SEE SPECIFICATIONS. VERIFY LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. VERIFY FINAL LOCATIONS WITH THE ARCHITECT. ALL PIPING AND DUCTWORK MUST BE CONCEALED ABOVE CEILINGS AND IN CHASES, UNLESS OTHERWISE NOTED. PIPING AND DUCTWORK SHALL OFFSET IN BEAM OR JOIST SPACES AS REQUIRED TO CLEAR OBSTRUCTIONS. PROVIDE OFFSETS AS REQUIRED.
5. ALL CONDUITS, PIPING & DUCTWORK MUST BE CONCEALED ABOVE CEILINGS AND IN CHASES, UNLESS NOTED OTHERWISE. CONDUITS, PIPING AND DUCTWORK SHALL BE ROUTED THRU & BETWEEN BAR JOISTS & BETWEEN BEAMS (WITH OFFSETS AS NEEDED) WHERE REQUIRED BY SPACE RESTRICTIONS AND MATERIALS PROVIDED BY OTHER CONTRACTORS.
6. PROVIDE RADIUS ELBOWS AT ELBOWS AT ALL CHANGES IN DIRECTION IN SUPPLY, RETURN AND EXHAUST DUCTWORK WHERE POSSIBLE, AS PER THE SCHEMATIC DETAILS. WHERE CONDITIONS DO NOT PERMIT THE USE OF RADIUS ELBOWS, SQUARE ELBOWS, WITH TURNING VANES, WILL BE USED. TURNING VANES SHALL BE AIRFOIL TYPE, ONLY, PER SMACNA DETAILS.
7. PROVIDE MANUAL VOLUME DAMPERS WITH LOCKING QUADRANTS IN LOW PRESSURE BRANCH SUPPLY, RETURN AND EXHAUST DUCTS TO EACH GRILLE, DIFFUSER, REGISTER, ETC., UNLESS NOTED OTHERWISE. (WHERE BRANCH DUCT IS LOCATED ABOVE HARD CEILING, PROVIDE O.B.D. IN AIR TERMINAL DEVICES) DAMPER SHALL BE AS CLOSE TO MAIN DUCT AS POSSIBLE. ALSO, PROVIDE MANUAL VOLUME DAMPERS AT OTHER LOCATIONS INDICATED ON PLANS. SEE SCHEMATIC DUCT DETAILS ON THE DRAWINGS. PROVIDE ACCESS TO ALL DAMPER QUADRANT LOCKS.
8. M.C. SHALL CAREFULLY COORDINATE HIS WORK WITH THE DIMENSIONS OF THE CHASE WALLS, WITH OTHER CONTRACTORS, AND WITH THE GEN. CONTR. TO PROVIDE ADEQUATE CLEARANCES FOR ELBOWS, MITERED TEES, FIRE DAMPER SLEEVES, ETC., AS REQ'D. FOR FIRE PENETRATION SEALANTS OR DAMPERS.
9. INSTALL ALL DUCTS THRU ALL 1-HOUR, & 2-HOUR RATED WALLS AND ALL SMOKE PARTITIONS TO LEAVE A MINIMUM OF 2 INCHES ABOVE THE DUCTS, SUCH THAT THE GENERAL CONTRACTOR CAN SEAL THE WALL ABOVE THE DUCTS. DO NOT INSTALL FLEXIBLE DUCT THROUGH RATED WALLS OR SMOKE PARTITIONS.
10. ALL FINAL ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT SHALL BE BY M.C. WHERE APPLICABLE, INCLUDE WIRE AND CONDUIT BETWEEN E.C.'S POINT OF TERMINATION AND EQUIPMENT CONNECTION POINT. REFER TO ELECTRICAL PLANS FOR POINT OF TERMINATION.
11. ALL FIRE DAMPERS SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH THE MFR'S. & U.L. LISTING AND INSTALLATION INSTRUCTIONS. DAMPERS SHALL HAVE SPECIFIC U.L. LISTING FOR THE CONSTRUCTION IN WHICH THEY ARE INSTALLED. PROVIDE FIRE DAMPERS WITH BLADES OUT OF THE AIRSTREAM IN HIGH & MEDIUM PRESSURE DUCTS, AND ALL LOW PRESSURE DUCTS THAT ARE 10 INCHES, OR LESS, IN HEIGHT OR WIDTH. PROVIDE STATIC FIRE DAMPERS IN AIR SYSTEMS THAT SHUTDOWN ON SMOKE DETECTION. PROVIDE DYNAMIC FIRE DAMPERS IN AIR SYSTEMS THAT OPERATE FOR SMOKE REMOVAL.
12. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY E.C. (DIV. 16) , INSTALLED AND CONNECTED TO THE UNITS BY M.C. FINAL CONNECTION TO THE FIRE ALARM SYSTEM BY E.C. INSTALL DETECTORS IN COMPLETE ACCORDANCE WITH THE MFR'S. INSTALLATION INSTRUCTIONS.
13. PROVIDE HINGED ACCESS DOORS AT ALL MOTOR OPERATED DAMPERS, FIRE DAMPERS, UPSTREAM HEATING COILS, SMOKE DETECTORS, AND OTHER ITEMS REQUIRING MAINTENANCE.
14. PIPE, CONDUIT AND DUCT OPENINGS THROUGH WALLS AND SLABS AROUND AND ABOVE MECHANICAL EQUIPMENT ROOMS SHALL BE PACKED WITH MINERAL WOOL AND SEALED.
15. ALL PIPING, CONDUIT AND DUCT OPENINGS IN RATED PARTITIONS AND FLOORS SHALL BE SEALED PER THE SPECIFICATIONS AND FIRE PENETRATION SYSTEM SCHEDULE.
16. PROVIDE ESCUTCHEON PLATES WHERE DUCTS OR PIPES PENETRATE CEILINGS OR WALLS IN FINISHED AREAS & WHERE EXPOSED TO VIEW. ESCUTCHEONS FOR DUCTS SHALL BE CONSTRUCTED OF THE SAME MATERIAL AS DUCT. PIPE ESCUTCHEONS SHALL BE CHROME-PLATED BRASS.
17. PIPING AND DUCTWORK ELEVATIONS SHOWN ARE APPROXIMATE. FIELD VERIFY AND MODIFY AS REQUIRED TO SUIT ACTUAL CONDITIONS.
18. ROUND BRANCH DUCT CONNECTIONS TO TRUNK DUCTWORK SHALL BE BELLMOUTH CONFIGURATIONS, EXCEPT DUCTWORK DOWNSTREAM OF VARIABLE VOLUME TERMINAL UNITS MAY HAVE SPIN-IN TAPS WITH VOLUME DAMPERS.
19. PROVIDE ALL AUXILIARY STEEL REQUIRED FOR DUCTWORK AND EQUIPMENT SUPPORT.
20. MOUNT ALL THERMOSTATS AND SWITCHES AT 48" A.F.F. TO THE CENTERLINE OF THE OPERABLE PART OF MECHANISM (NOT TO BOTTOM OF UNIT).
21. THOROUGHLY COORDINATE ALL WORK ASSOCIATED WITH ALL DEVICES FURNISHED BY AND WORK EXECUTED BY "OTHER" CONTRACTORS.
22. PROVIDE ALL REQUIRED CUTTING, PATCHING AND INFILL. THEREAFTER, RESTORE ALL AFFECTED SURFACES TO MATCH EXISTING.
23. ALL RECTANGULAR SUPPLY, RETURN AND OUTSIDE AIR DUCTWORK SHALL BE LINED WITH 1" THICK MIN. 1 PCF. DUCT LINER.
24. ALL DUCT SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS IN INCHES.
25. ALL ELECTRIC MOTORS SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE (ENERGY CODE).
26. ALL LISTED EQUIVALENT EQUIPMENT ITEMS SHALL MEET THE PROJECT SPECIFICATIONS, SHALL FIT INTO SPACE AVAILABLE, AND SHALL MEET ALL SCHEDULED CAPACITY REQUIREMENTS. THE FINAL DECISION OF ACCEPTABILITY WILL BE MADE BY THE ENGINEER.
27. ALL PERMANENTLY WIRED POLYPHASE MOTORS OF 1 HP OR MORE SHALL MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF ASHRAE STANDARD 90.1.

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NORTH CAROLINA REGISTERED PROFESSIONAL 25996 SEAL DAVID L. CALE ENGINEER

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: MECHANICAL COVER SHEET STANDARD NOTES AND SCHEDULES

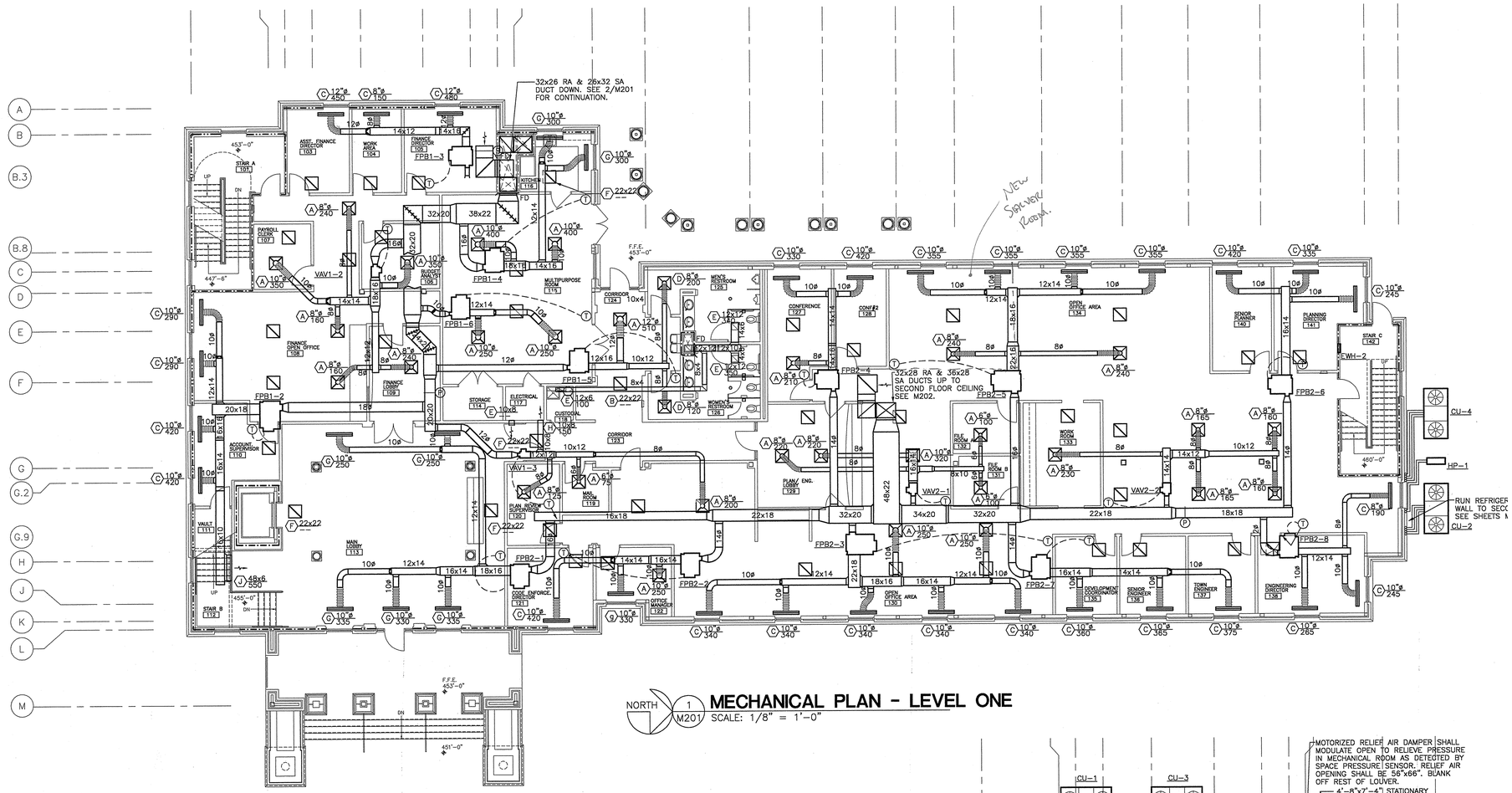
Division President: Robert Bishop, AIA
Job Captain: David L. Cale, P.E.
Drawn By: David L. Cale, P.E.
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Revisions: No ____ Date ____
Issue Date: April 30, 2002

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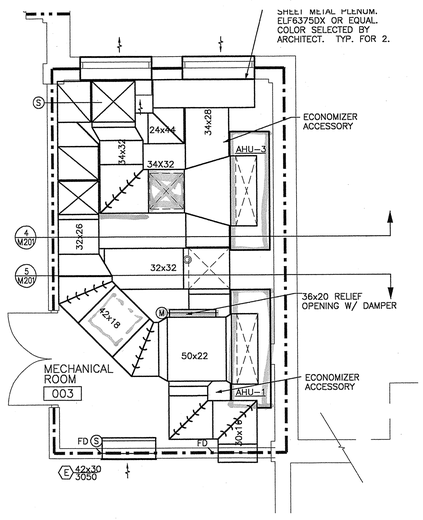
Sheet M101 Of 6

CONSTRUCTION DOCUMENTS

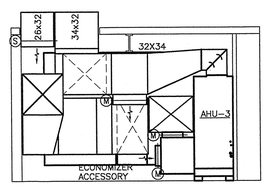
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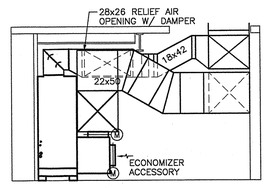
NORTH 1 M201 **MECHANICAL PLAN - LEVEL ONE**
SCALE: 1/8" = 1'-0"



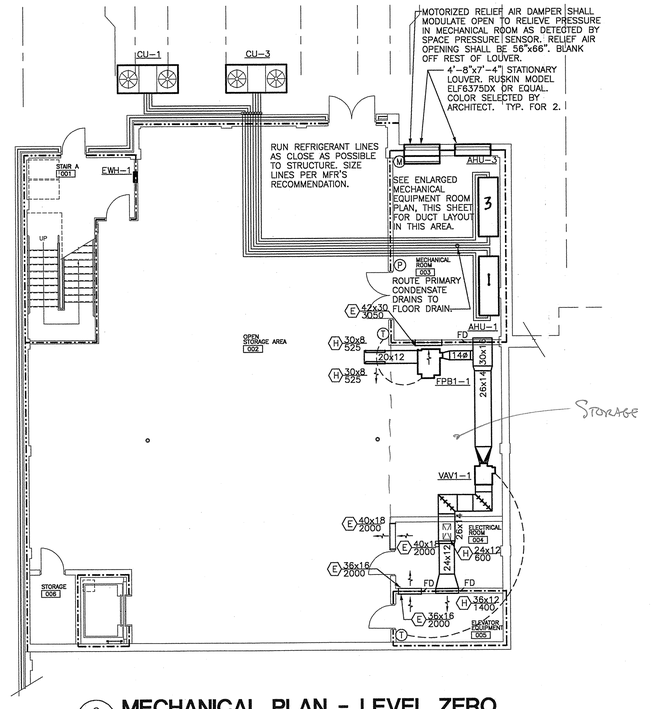
3 M201 **MECHANICAL ROOM PLAN**
SCALE: 1/4" = 1'-0"



4 M201 **SECTION**
SCALE: 1/4" = 1'-0"



5 M201 **SECTION**
SCALE: 1/4" = 1'-0"



2 M201 **MECHANICAL PLAN - LEVEL ZERO**
SCALE: 1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL 25996 SEAL ENGINEER DAVID L CALE

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: **BASEMENT LEVEL AND FIRST LEVEL MECHANICAL PLAN**

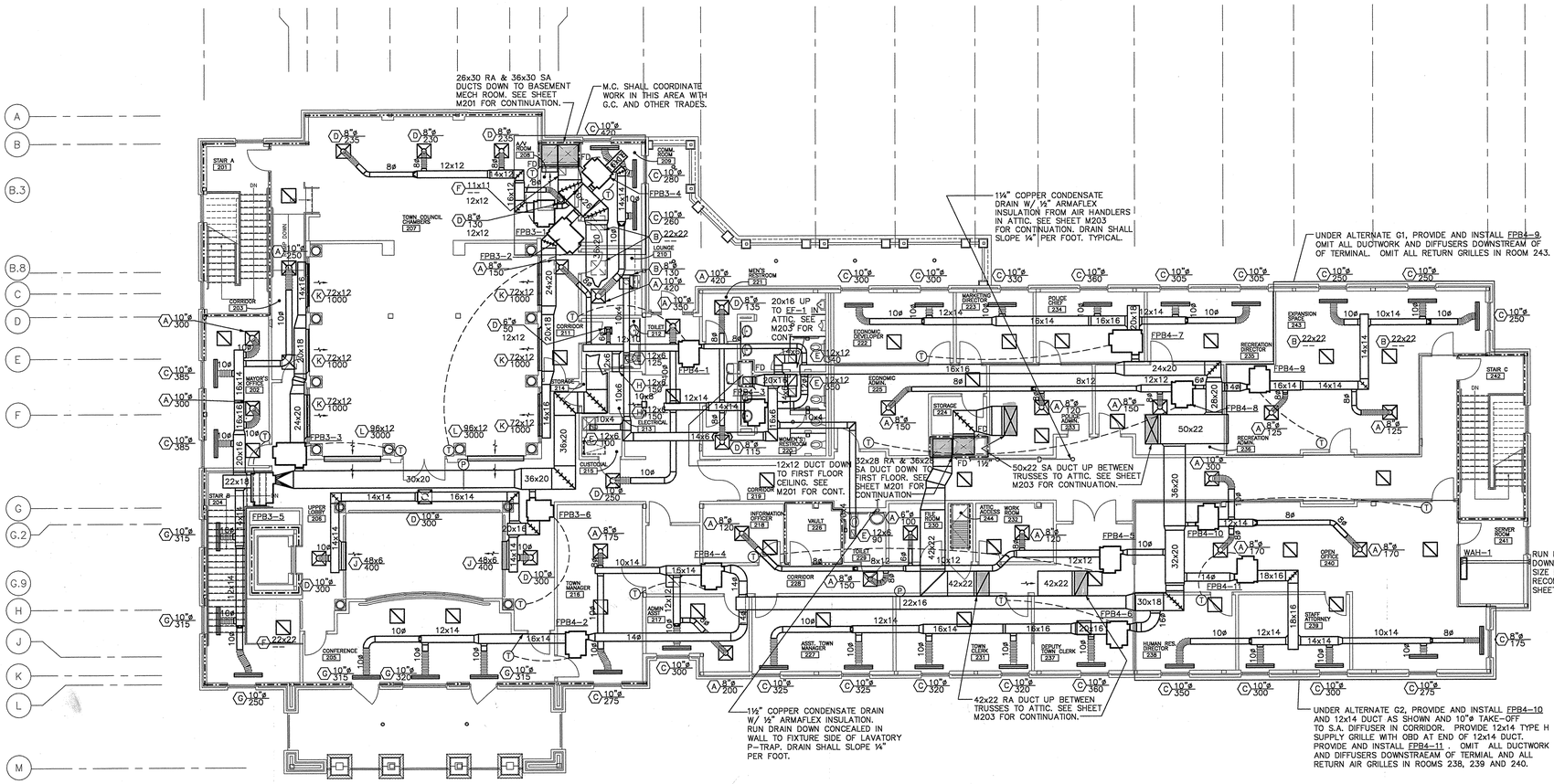
Division President
Robert Bishop, AIA
Job Captain
David L. Cale, P.E.
Drawn By
David L. Cale, P.E.
Date Drawn
2/14/02
Drawing File Name
5760M201
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet Of 6
M201

CONSTRUCTION DOCUMENTS

Drawing Scale: 1 = 96
Drawing Plotted: 08:17
User name: DCole
File name: L:\Y_CEP\Civil\511576000\ENGINEER\Mech\M201a.dwg



NORTH 1 M202

FLOOR PLAN - LEVEL TWO

SCALE: 1/8" = 1'-0"

Little & Associates Architects

4309 Emperor Boulevard
Suite 220
Durham, NC 27703
T 919.474.2500
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NORTH CAROLINA PROFESSIONAL 25996 SEAL ENGINEER DAVID L CALE

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: SECOND LEVEL MECHANICAL PLAN

Division President
Robert Bishop, AIA

Job Captain
David L. Cale, P.E.

Drawn By
David L. Cale, P.E.

Date Drawn
2/14/02

Drawing File Name
5760M202

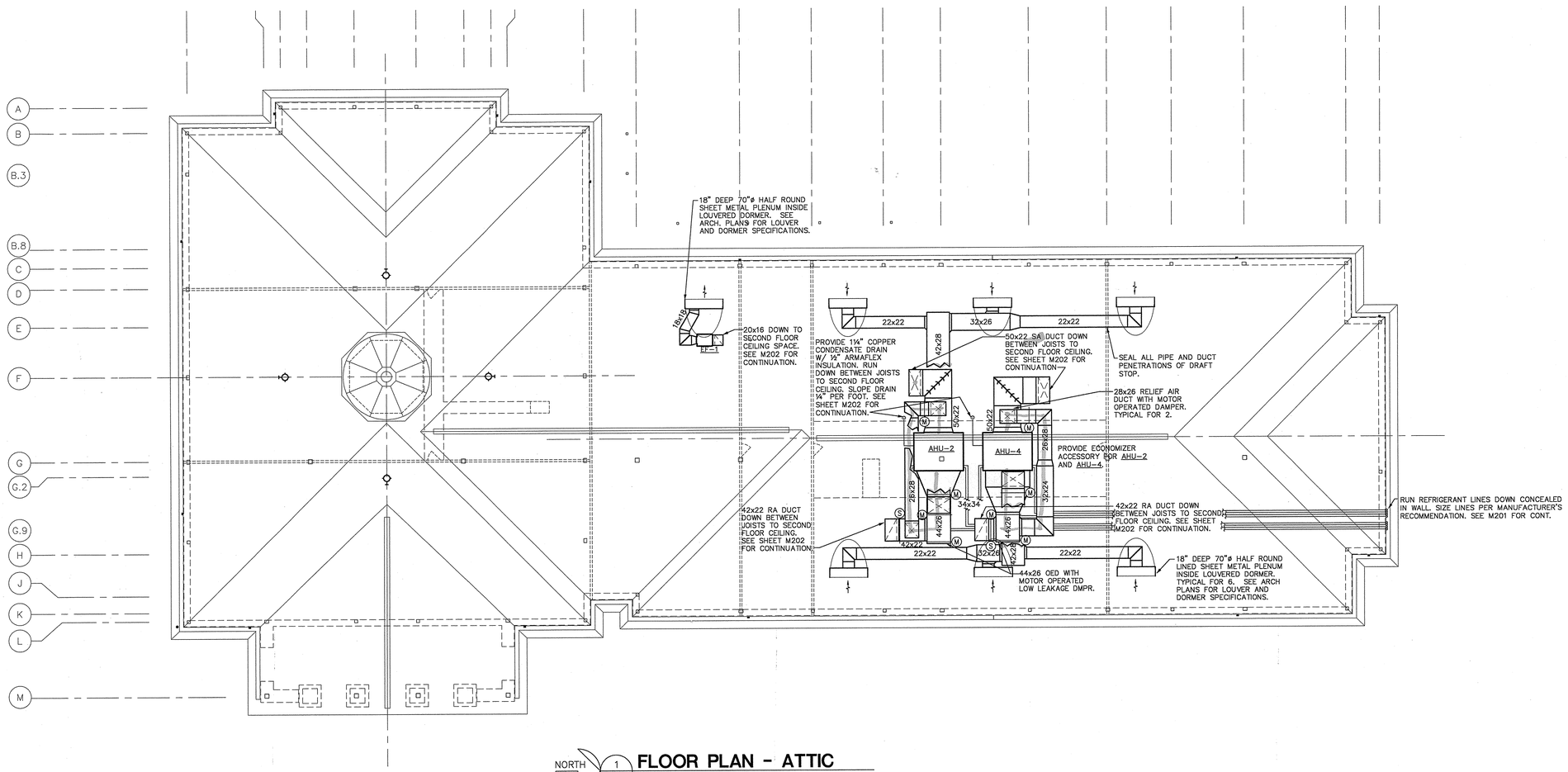
Revisions
No ____ Date ____
No ____ Date ____
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No ____ Date ____
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet M202 Of 6

CONSTRUCTION DOCUMENTS

Drawing Scale: 1 = 96
Date: 05-08-02 Time: 10:00
User name: DWade
File name: L:\T DEPT\Civil\511576000\ENGINEER\Mech\M202.dwg



NORTH 1/M203 **FLOOR PLAN - ATTIC**
SCALE: 1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL 25996 SEAL DAVID L CALE ENGINEER

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: **ATTIC LEVEL MECHANICAL PLAN**

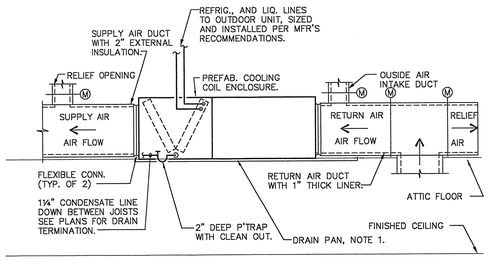
Division President: Robert Bishop, AIA
Job Captain: David L. Cale, P.E.
Drawn By: David L. Cale, P.E.
Date Drawn: 2/14/02
Drawing File Name: 5760M203
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: **511576000**

Sheet **M203** Of 6

CONSTRUCTION DOCUMENTS

Drawing Scale: 1 = 96
Date: 05-08-2002
User name: dcale
File name: L:\T (CEP\Dwgs\511576000\ENGINEER\Mech\M203.dwg

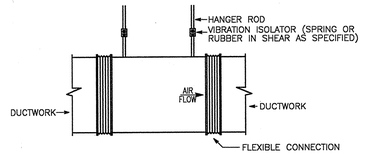


NOTES:

1. 24 GAGE GALVANIZED DRAIN PAN WITH MICRO-FLOAT SWITCH. INTERLOCK FLOAT SWITCH WITH AIR HANDLER SHUT-DOWN. INSTALL FLOAT SWITCH IN ONE CORNER OF PAN AND TILT PAN TO THAT CORNER. PAN SHALL HAVE A MINIMUM DEPTH OF 1½" AND EXTEND 3" LARGER THAN UNIT DIMENSION IN WIDTH AND LENGTH.

1 M301 ATTIC MOUNTED AIR HANDLER DETAIL

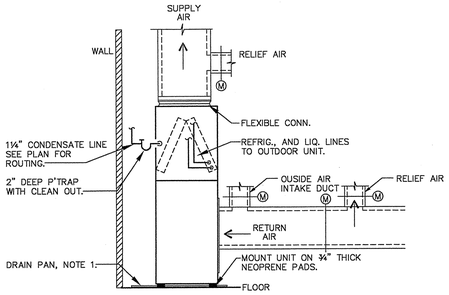
NO SCALE



NOTE: PROVIDE MANUAL DISCONNECT SWITCH

5 M301 INLINE EXHAUST FAN DETAIL

NO SCALE

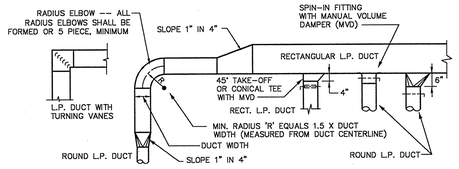


NOTES:

1. 18 GUAGE GALVANIZED AUXILIARY DRAIN PAN WITH A MINIMUM DEPTH OF 3" AND EXTENDING 6" LARGER THAN UNIT DIMENSIONS IN WIDTH AND LENGTH. ALL SEAMS SHALL BE WELDED. PROVIDE FLOAT SWITCH TO CONTROL OVERFLOW IN AUXILIARY DRAIN PAN.

2 M301 VERTICAL AIR HANDLER DETAIL

NO SCALE



PROVIDE 1.5 RADIUS ELBOWS, IN LIEU OF ELBOWS WITH TURNING VANES, WHERE SPACE ALLOWS AND WALL PENETRATIONS, JOINTS, ETC., DO NOT CONFLICT WITH THE DUCT ROUTING

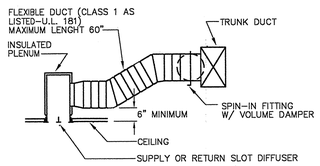
DAMPERS WITH LOCKING QUADRANTS SHALL BE PROVIDED IN ALL BRANCH DUCTS OF LOW PRESSURE SUPPLY, RETURN AND EXHAUST DUCTS. LOCATE DAMPERS IN AREAS WITH ACCESSIBLE CEILINGS OR PROVIDE CEILING ACCESS DOORS. SEE GENERAL NOTES

LIVING UNITS (APARTMENTS, SUITES, DORMITORY ROOMS, ETC.) WITH GYPSUM BOARD CEILINGS AND VERY LOW PRESSURE SUPPLY AIR DUCT SYSTEMS MAY NOT GET BALANCING DAMPERS IN THE RUNOUT DUCTS (AT THE MAIN S/A DUCTS). SEE THE PLANS. IF THIS IS THE CASE, THE AIR BALANCING SHALL BE PERFORMED WITH THE OPPOSED-BLADE DAMPERS AT THE S/A REGISTERS AND DIFFUSERS.

FOR ALL LINED DUCTS, PROVIDE DUCT ACCESS DOORS AT 15'-0" ON CENTER, MAXIMUM SPACING, FOR DUCT CLEANING. IN AREAS WITH NON-ACCESSIBLE CEILINGS, CONFIRM THIS REQ'MT. WITH ARCHITECT PRIOR TO BIDDING THE PROJECT.

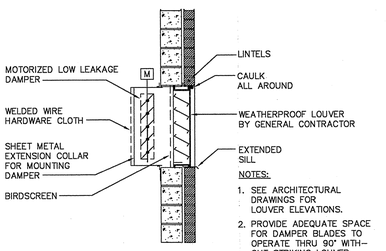
6 M301 LOW PRESSURE SUPPLY, RETURN OR EXHAUST DUCTWORK DETAILS

NO SCALE



9 M301 SLOT DIFFUSER

NO SCALE

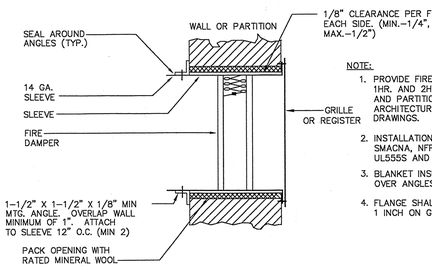


NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR LOUVER ELEVATIONS.
2. PROVIDE ADEQUATE SPACE FOR DAMPER BLADES TO OPERATE THRU 90° WITH-OUT STRIKING LOUVER

10 M301 DAMPER AND LOUVER INSTALLATION DETAIL

NO SCALE

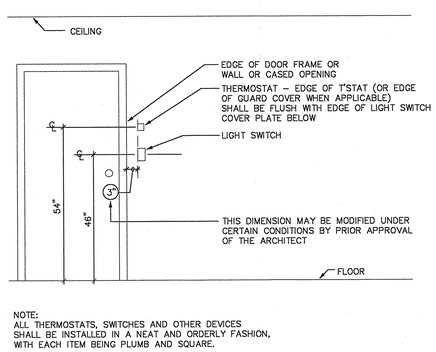


NOTE:

1. PROVIDE FIRE DAMPERS IN ALL 1HR. AND 2HR. WALLS, SLABS, AND PARTITIONS SHOWN ON ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. INSTALLATION SHALL COMPLY WITH SMACNA, NFPA-90A, NCSBC, UL555, UL555S AND LOCAL AUTHORITIES.
3. BLANKET INSULATION SHALL BE INSTALLED OVER ANGLES AND SEALED TO WALL.
4. FLANGE SHALL BE A MINIMUM OF 1 INCH ON GRILLE SIDE.

13 M301 REGISTER OR GRILLE AND FIRE DAMPER

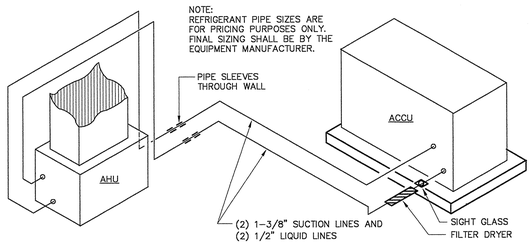
NO SCALE



NOTE:
ALL THERMOSTATS, SWITCHES AND OTHER DEVICES SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION, WITH EACH ITEM BEING PLUMB AND SQUARE.

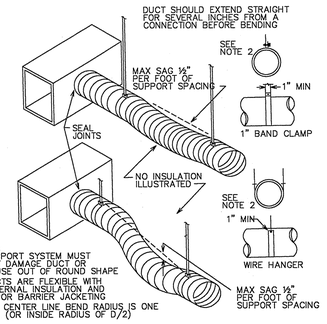
14 M301 TYPICAL LOCATION OF SWITCHES/ ALARMS/ THERMOSTATS/ OUTLETS

NO SCALE



3 M301 REFRIGERANT PIPING SCHEMATIC

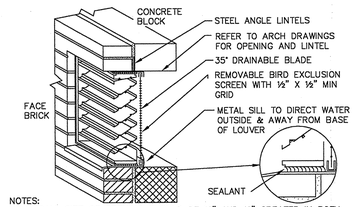
NO SCALE



NOTES:
1 SUPPORT SYSTEM MUST NOT DAMAGE DUCT OR CAUSE OUT OF ROUND SHAPE
2 DUCTS ARE FLEXIBLE WITH EXTERNAL INSULATION AND VAPOR BARRIER JACKETING
3 MIN CENTER LINE BEND RADIUS IS ONE DIA. (OR INSIDE RADIUS OF D/2)

7 M301 FLEXIBLE DUCT SUPPORTS

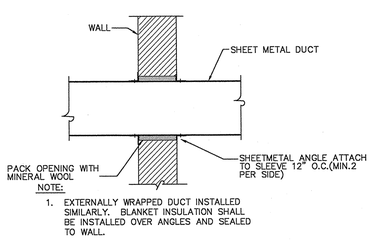
NO SCALE



NOTES:
1 OVERALL SIZE OF OPENING SHOULD BE ¼" AND ½" GREATER IN BOTH DIRECTIONS THAN EXTERNAL DIMENSIONS OF LOUVER FOR SIZES < 48" AND > 48", RESPECTIVELY
2 MAX LOUVER WIDTH < 5FT, USE MULLION CONNECTED SECTIONS FOR GREATER WIDTHS
3 CAULK AND SEAL AROUND PERIMETER OF LOUVER SECTION AT WALL
4 PROVIDE ALUMINUM OR GALV EXPANDED BIRD EXCLUSION SCREEN ON INSIDE (OR OUTSIDE) OF LOUVER. (MIN FREE AREA 80% OF GROSS AREA) ATTACH TO OUTSIDE IF BLADE SEPARATION IS > 2½"
5 CONSTRUCT EXTRUDED LOUVER OF NON-FERROUS CORROSION RESISTANT MATERIAL AND SECURE WITH SS OR ALUMINUM FASTENERS

11 M301 STATIONARY LOUVER IN MASONRY WALL DETAIL

NO SCALE

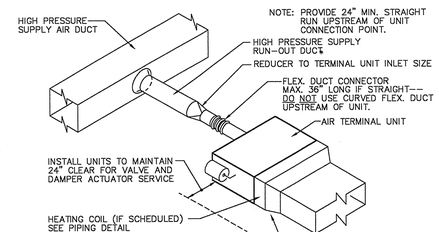


NOTE:

1. EXTERNALLY WRAPPED DUCT INSTALLED SIMILARLY. BLANKET INSULATION SHALL BE INSTALLED OVER ANGLES AND SEALED TO WALL.

15 M301 TYPICAL DUCT PENETRATION THRU A NON-RATED WALL

NO SCALE

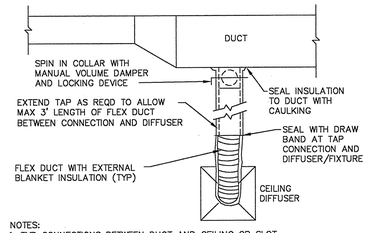


*IF RUNOUT LENGTH EXCEEDS 5 FT. AND IS NOT SIZED ON THE DRAWINGS, THE RUNOUTS SHALL BE SIZED BY THE FOLLOWING SCHEDULE:

SCHED. MAX. CFM	RUNOUT SIZE	SCHED. MAX. CFM	RUNOUT SIZE
0-100	5"ø	380-520	9"ø
110-170	6"ø	530-690	10"ø
180-270	7"ø	700-890	11"ø
280-370	8"ø	900-1100	12"ø

4 M301 AIR TERMINAL UNIT INSTALLATION DETAIL

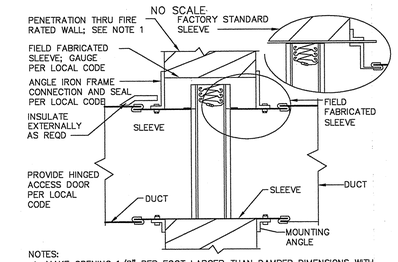
NO SCALE



NOTES:
1 TYP CONNECTIONS BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AND SINGLE OR DOUBLE SIDED SADDLE BOOT LIGHT FIXTURES AS SHOWN ON PLANS OR INDICATED IN SCHEDULE
2 ONLY ONE 90° TURN ALLOWED IN FLEX DUCT WITH TURN R/D > 1.0; DUCT MUST BE PROPERLY SUPPORTED TO PREVENT KINKING
3 IF ADDITIONAL 90° TURNS ARE REQD TO CONNECT OUTLET TO DIFFUSER, EXTEND TAP AND PROVIDE EXTERNALLY INSULATED STOVE PIPE ELLS AS REQD.

8 M301 CONNECTIONS BETWEEN MAIN DUCT AND AIR SUPPLY OR RETURN DIFFUSERS & FIXTURES

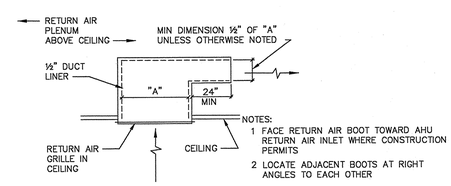
NO SCALE



NOTES:
1 MAKE OPENING 1/8" PER FOOT LARGER THAN DAMPER DIMENSIONS WITH WITH 1/4" MIN REQD.
2 SLEEVE GAUGE > GAUGE OF DUCT WHERE DUCT CONSTRUCTION & JOINTS PER NFPA 90.
3 DAMPER CONSTRUCTED AND TESTED PER UL 555, UL LABELED, 1-1/2" HOUR FIRE RATING W/ 212° F. FUSIBLE LINK.
4 SEAL BETWEEN WALL AND SLEEVE W/APPROVED FIRE STOP MATERIAL.
5 WHERE HEIGHT OF FIRE DAMPER IN WALL IS 10 INCHES, OR LESS, IN HEIGHT PROVIDE TYPE 'B' FIRE DAMPERS.

12 M301 TYPICAL FIRE DAMPER TYPE 'B' INSTALLATION DETAILS

NO SCALE



NOTES:
1 FACE RETURN AIR BOOT TOWARD AHU RETURN AIR INLET WHERE CONSTRUCTION PERMITS
2 LOCATE ADJACENT BOOTS AT RIGHT ANGLES TO EACH OTHER

16 M301 SOUND ATTENUATING RETURN AIR

NO SCALE

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NORTH CAROLINA PROFESSIONAL 25996 SEAL DAVID L CALE ENGINEER

Holly Springs Town Hall
Holly Springs, North Carolina

Project

MECHANICAL DETAILS

Sheet Title

Division President
Robert Bishop, AIA
Job Captain
David L. Cale, P.E.
Drawn By
David L. Cale, P.E.
Date Drawn
2/14/02
Drawing File Name
5760M301
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet Of 6
M301

CONSTRUCTION DOCUMENTS

Drawing Scale: 1 = 1
Date: 10-Jul-2002 Time: 10:06
User name: David Cale
File name: L:\T CEP\Dwgs\511576000\ENGINEER\Mech\M301.dwg

SPLIT SYSTEM SCHEDULE

		AHU-1/CU-1	AHU-2/CU-2	AHU-3/CU-3	AHU-4/CU-4
	SYSTEM NO. :	BASEMENT	ATTIC	BASEMENT	ATTIC
	LOCATION :	TRANE	TRANE	TRANE	TRANE
	MANUFACTURER :	TWE240B4	TWE240B4	TWE240B4	TWE240B4
	MODEL NUMBER :				
SUPPLY FAN	CFM	9,600	9,600	9,600	9,600
	OA CFM	1,500	1,550	2,650	2,650
	TOTAL STATIC PRESSURE	1.0"	1.0"	1.0"	1.0"
	FAN RPM	949	949	949	949
	WHEEL QTY/DIAMETER	2/15x15	2/15x15	2/15x15	2/15x15
	TYPE OF WHEEL	DWDI FC	DWDI FC	DWDI FC	DWDI FC
	TYPE OF DRIVE	BELT	BELT	BELT	BELT
	MOTOR H.P.	5.0	5.0	5.0	5.0
	VOLTAGE / PHASE / CYCLES	480/3/60	480/3/60	480/3/60	480/3/60
	TYPE FAN	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL
	ARRANGEMENT	VERTICAL	HORIZONTAL	VERTICAL	HORIZONTAL
COOLING COIL	CFM	9,600	9,600	9,600	9,600
	COIL ARRANGEMENT (DRAWTHROUGH/BLOWTHROUGH)	DT	DT	DT	DT
	TYPE OF COOLING (CHILLED WATER/DX)	DX	DX	DX	DX
	FINS PER INCH	12	12	12	12
	ROWS	3	3	3	3
	TYPE OF CIRCUIT	DUAL	DUAL	DUAL	DUAL
	FACE VELOCITY IN F.P.M.	444	444	444	444
	FACE AREA IN SQ. FT.	21.6	21.6	21.6	21.6
	E.A.T. DEGREES F. DB/WB	77.9/65.0	78.0/65.1	80.1/66.7	76.9/64.2
	TOTAL CAPACITY IN MBH	244.9	244.9	244.9	244.9
	SENSIBLE CAPACITY IN MBH	188.7	188.7	188.7	188.7
FILTER	CFM	9,600	9,600	9,600	9,600
	FILTER ARRANGEMENT (DRAWTHROUGH/BLOWTHROUGH)	DT	DT	DT	DT
	TYPE OF FILTER (BAG/CARTRIGE/ETC.)	THROWAWAY	THROWAWAY	THROWAWAY	THROWAWAY
	FILTER EFFIENCY %	30%	30%	30%	30%
	NUMBER AND SIZE OF FILTERS	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2
	FACE VELOCITY IN F.P.M.	864	864	864	864
CONDENSING UNIT	TYPE OF SYSTEM (SPLIT/SINGLE PACKAGE)	SPLIT	SPLIT	SPLIT	SPLIT
	NUMBER AND H.P. OF EACH FAN	2/1.0	2/1.0	2/1.0	2/1.0
	VOLTAGE/PHASE/CYCLES	480/3/60	480/3/60	480/3/60	480/3/60
	TYPE OF ELECTRICAL CONNECTION	SINGLE POINT	SINGLE POINT	SINGLE POINT	SINGLE POINT
	NUMBER OF COMPRESSORS	2	2	2	2
	CAPACITY OF UNIT IN BTUH	240,000	240,000	240,000	240,000
	VOLTAGE/PHASE/CYCLES	480/3/60	480/3/60	480/3/60	480/3/60
	MCA/MOCP	36.1/50	36.1/50	36.1/50	36.1/50
	MANUFACTURER	TRANE	TRANE	TRANE	TRANE
	MODEL NUMBER	TTA240B4	TTA240B4	TTA240B4	TTA240B4

NOTES:
1. ALL SYSTEMS SHALL HAVE A MINIMUM 9.5 EER.
2. PROVIDE LOW AMBIENT KIT FOR ALL SYSTEMS.
3. PROVIDE MIXING BOX FOR ENTHALPY ECONOMIZER OPERATION FOR ALL SYSTEMS.
4. PROVIDE MOUNTING SUBBASE FOR VERTICAL UNITS.
5. PROVIDE VIBRATION ISOLATORS FOR ALL UNITS.
6. PROVIDE AUXILIARY CONDENSATE DRAIN PAN WITH FLOAT SWITCH FOR ALL UNITS.
7. CAPACITY LISTED IS AT ARI STANDARD CONDITIONS ADN AIRFLOW INDICATED.
8. DISCONNECT BY E.C., FUSE SIZED PER UNIT NAMEPLATE.
9. EQUALS BY CARRIER, YORK AND MCQUAY.

FAN SCHEDULE

UNIT NO.	SERVICE	LOCATION	FAN TYPE	DRIVE	WHEEL TYPE	CFM	S.P. (IN. W.G.)	MAX. TIP SPEED (FPM)	APPROX. RPM	HP	V./ø	STARTER BY	DISC. SW. BY	CONTROL SCHEME	MFR. & MODEL	NOTES
EF-1	TOILET EXHAUST	ATTIC	CENTRIFUGAL INLINE	BELT	DWDI FC	2,005	1.0"	2,963	1,132	1	480/3	M.C.	M.C.	ON/OFF	COOK DB-10	ALL

NOTES:
1. PROVIDE VIBRATION ISOLATORS – SEE SPECS -- AND COUNTER BALANCED BACK-DRAFT DAMPER.
2. PROVIDE COMB. STARTER & DISC. SW. FUSED PER UNIT NAMEPLATE MTD. NEAR THE FAN.
3. PROVIDE BUILT-IN THERMAL O.L. PROTECTION, LINED HOUSING, & B.D. DAMPER.
5. SIMILAR UNITS, MFRD. BY PENN, BREIDERT, ACME OR LOREN COOK MAY BE SUBMITTED WITHOUT PRIOR APPROVAL.

FAN-POWERED VARIABLE AIR VOLUME AIR TERMINAL UNIT (FPB) SCHEDULE

BOX NO.	COOLING (PRIMARY) AIR DATA			FAN DATA					HEATING COIL DATA				ELECTRICAL DATA		TRANE MODEL NO.	NOTES
	MAX. CFM	MIN. CFM	INLET	CFM	EXT. S.P.	HP	VOLTS/ø	SPEED SETTING	CFM	KW	STAGES	VOLTS/ø	MCA	MOCP		
FPB1-1	1,050	175	8ø	475	0.50"	1/8	277/1	HIGH	650	4.5	2	480/3	10.3	15	VPEE-1107	ALL
FPB1-2	1,970	250	12ø	950	0.50"	1/3	277/1	MED	1,200	7.5	2	480/3	17.0	20	VPEE-2415	ALL
FPB1-3	1,080	150	8ø	500	0.50"	1/3	277/1	LOW	650	4.5	2	480/3	11.5	15	VPEE-1111	ALL
FPB1-4	1,900	450	12ø	750	0.50"	1/3	277/1	LOW	1,200	8.5	2	480/3	18.5	20	VPEE-2415	ALL
FPB1-5	830	110	8ø	390	0.50"	1/8	277/1	HIGH	500	3.5	2	480/3	8.8	15	VPEE-1107	ALL
FPB2-1	1,500	350	10ø	650	0.50"	1/3	277/1	LOW	1,000	7.0	2	480/3	15.3	20	VPEE-1711	ALL
FPB2-2	1,000	150	8ø	500	0.50"	1/3	277/1	LOW	650	4.5	2	480/3	11.5	15	VPEE-1111	ALL
FPB2-3	2,200	250	12ø	1,150	0.50"	1/3	277/1	MED	1,400	8.5	2	480/3	18.5	20	VPEE-2415	ALL
FPB2-4	960	320	8ø	320	0.50"	1/8	277/1	HIGH	640	5.0	2	480/3	11.0	15	VPEE-1107	ALL
FPB2-5	1,900	300	12ø	900	0.50"	1/3	277/1	MED	1,200	8.0	2	480/3	17.8	20	VPEE-2415	ALL
FPB2-6	1,000	150	8ø	500	0.50"	1/3	277/1	LOW	650	4.5	2	480/3	11.5	15	VPEE-1111	ALL
FPB2-7	1,100	150	8ø	525	0.50"	1/3	277/1	LOW	675	4.5	2	480/3	11.5	15	VPEE-1111	ALL
FPB2-8	700	110	8ø	340	0.50"	1/8	277/1	HIGH	450	3.5	2	480/3	8.8	15	VPEE-1107	ALL
FPB3-1	830	175	8ø	375	0.50"	1/8	277/1	HIGH	550	4.0	2	480/3	9.5	11	VPEE-1107	ALL
FPB3-2	3,000	450	14ø	1,400	0.50"	1/2	277/1	HIGH	1,850	14.0	2	480/3	27.4	30	VPEE-3220	ALL
FPB3-3	3,000	450	14ø	1,400	0.50"	1/2	277/1	HIGH	1,850	14.0	2	480/3	27.4	30	VPEE-3220	ALL
FPB3-4	1,380	200	10ø	650	0.50"	1/3	277/1	MED	850	5.5	2	480/3	13.0	15	VPEE-1711	ALL
FPB3-5	2,500	350	14ø	1,150	0.50"	1/2	277/1	MED	1,500	9.5	2	480/3	20.7	25	VPEE-3220	ALL
FPB3-6	1,700	300	10ø	800	0.50"	1/3	277/1	MED	1,100	7.0	2	480/3	15.3	20	VPEE-1711	ALL
FPB4-1	350	60	6ø	250	0.50"	1/15	277/1	HIGH	310	2.0	2	480/3	6.3	15	VPEE-0604	ALL
FPB4-2	950	240	8ø	360	0.50"	1/8	277/1	HIGH	600	4.5	2	480/3	11.5	15	VPEE-1107	ALL
FPB4-3	850	110	8ø	440	0.50"	1/3	277/1	LOW	550	3.5	2	480/3	10.0	15	VPEE-1111	ALL
FPB4-4	950	150	8ø	450	0.50"	1/3	277/1	LOW	600	4.0	2	480/3	10.8	15	VPEE-1111	ALL
FPB4-5	490	100	6ø	250	0.50"	1/8	277/1	HIGH	350	2.5	2	480/3	7.3	15	VPEE-0607	ALL
FPB4-6	1,650	200	10ø	850	0.50"	1/3	277/1	MED	1,050	6.5	2	480/3	14.5	15	VPEE-1711	ALL
FPB4-7	1,900	300	12ø	900	0.50"	1/3	277/1	MED	1,200	7.5	2	480/3	17.0	20	VPEE-2415	ALL
FPB4-8	420	85	6ø	215	0.50"	1/8	277/1	HIGH	300	2.5	2	480/3	7.3	15	VPEE-0607	ALL
FPB4-9	1,000	150	8ø	500	0.50"	1/3	277/1	LOW	650	4.5	2	480/3	11.5	15	VPEE-1111	ALL
FPB4-10	640	130	6ø	320	0.50"	1/8	277/1	HIGH	450	3.5	2	480/3	8.8	15	VPEE-0607	ALL
FPB4-11	1,400	200	10ø	700	0.50"	1/3	277/1	MED	900	6.0	2	480/3	13.8	15	VPEE-1711	ALL

NOTES:
1. SELECTION BASED UPON TRANE "VPEE" EXCEPT AS NOTED; EQUIV. BY CARRIER, ENVIROTECH OR NAILOR MAY BE SUBMITTED WITHOUT PRIOR APPROVAL.
2. TERMINAL UNITS SHALL BE MAXIMUM 18" HIGH.
3. MAX. AIR P.D. (IN.) SHALL BE 0.5" FOR UNIT PRIMARY COOLING AIRFLOW AND HEATING COIL, UNLESS NOTED OTHERWISE.
4. ALL STARTERS AND DISCONNECTS BY TERMINAL MANUFACTURER.
5. SEE GENERAL NOTES AND INSTALLATION DETAIL.
6. DAMPER ACTUATORS SHALL BE FACTORY-MTD., FROM COMPONENTS SHIPPED FROM & BY THE CONTROLS SUB-CONTR. TO THE TERMINAL UNIT MFR.
7. PROVIDE CONTROLS POWER TRANSFORMER, CONTROL DISC. SWITCH AND NEMA 1 UNIT DISCONNECT SWITCH FUSED PER UNIT NAMEPLATE.
8. PROVIDE OPTIONAL FILTER RACK & 2 SETS OF FILTERS.
9. ALL TERMINAL UNITS SHALL HAVE DIRECT DIGITAL CONTROLS.
10. IF NO RUNOUT SIZE IS SHOWN ON PLANS, RUNOUT SHALL BE SAME SIZE AS TERMINAL INLET.

SINGLE-DUCT AIR TERMINAL UNIT SCHEDULE

BOX NO.	MFR.	MODEL NO. & SIZE DESIGNATION	COOLING AIR DATA					NOTES
			MAX. CFM	MIN. CFM	TYPE	CONTROL	INLET	MAX. APD	
VAV1-1	TRANE	VCCE-24	2,000	200	VAV	DDC	12"ø	--	ALL
VAV1-2	TRANE	VCCE-17	1,500	150	VAV	DDC	10ø	--	ALL
VAV1-3	TRANE	VCCE-06	550	110	VAV	DDC	6"ø	--	ALL
VAV2-1	TRANE	VCCE-11	960	110	VAV	DDC	8"ø	--	ALL
VAV2-2	TRANE	VCCE-11	880	110	VAV	DDC	8"ø	--	ALL

NOTES:
1. SELECTION BASED UPON TRANE SERIES VCEE; EQUIV. UNITS BY CARRIER, NAILOR, OR ENVIROTECH MAY BE SUBMITTD W/O PRIOR APPROVAL.
2. MAX. AIR P.D. (IN.) SHALL BE 0.30" FOR UNIT COOLING AIRFLOW UNLESS OTHERWISE NOTED.
3. TERMINAL UNITS SHALL BE MAXIMUM 14" HIGH.
4. SEE GENERAL NOTES AND INSTALLATION DETAIL.
5. DAMPER ACTUATORS SHALL BE FACTORY-MTD., FROM COMPONENTS SHIPPED BY, & FROM, THE CONTROLS SUBCONTRACTOR TO THE AIR TERMINAL UNIT MFR.
6. PROVIDE CONTROLS POWER TRANSFORMER, DISC. SWITCH AND FUSES.
7. ALL TERMINALS SHALL BE 120V/1ø.
8. ALL TERMINALS SHALL HAVE DIRECT DIGITAL CONTROLS.
9. IF NO RUNOUT SIZE IS SHOWN ON PLANS, RUNOUT SHALL BE SAME SIZE AS TERMINAL INLET.

ELECTRIC WALL HEATER SCHEDULE

UNIT NO.	TYPE	KW	STEPS	LOCATION	VOLTS/ PHASE	MANUFACTURER	NOTES
EWH-1	ARCH WALL HTR	3.0	1	STAIR C LEVEL 1	277/1ø	MARKEL	ALL
EWH-2	ARCH WALL HTR	3.0	1	STAIR A LEVEL 1	277/1ø	MARKEL	ALL

NOTES:
1. UNITS SHALL BE RECESSED TYPE
2. EQUIV. UNITS BY CHROMALOX, BERKO, Q-MARK, RAYWALL OR TRANE MAY BE SUBMITTED WITHOUT PRIOR APPROVAL.
3. PROVIDE BUILT-IN THERMOSTAT, DISCONNECT SWITCH, & FAN DELAY RELAY.
4. UNITS SHALL BE TAMPER-PROOF.
5. PROVIDE WITH 18 GAUGE FRONT COVER, MINIMUM.

DUCTLESS SPLIT SYSTEM HEAT PUMPS

UNIT DESIGNATION CC/CU	INDOOR UNIT							OUTDOOR UNIT					COOLING CAPACITY		HEATING CAPACITY MBH	REFRIGERANT LINE ID		NOTES
	MANUFACTURER & MODEL	AIRFLOW (CFM)	FAN SPEED	ELECTRICAL				MANUFACTURER & MODEL	ELECTRICAL				TOT. MBH	SENS. MBH		LIQUID	SUCTION	
				FAN HP	FAN VOLT/PH	MCA	MOCP		FAN HP	FAN VOLT/PH	MCA	MOCP						
WAH-1/HP-1	EMI WHP 12	310	HIGH	0.20	208/1ø	0.43	15	EMI SHC 12D	1/8	208/1ø	7.0	15	12.0	24.5	11.2	1/4"	1/2"	ALL

NOTES:
1. SYSTEM SHALL HAVE A MINIMUM 10.0 SEER RATING AND HEAT PUMP COP SHALL BE MINIMUM 3.1.
2. FURNISH AND INSTALL A 24V REMOTE THERMOSTAT AS SHOWN ON PLANS.
3. HEAT PUMP SHALL INTERFACE WITH EVAPORATOR BY MEANS OF A 24V CONTROL CONNECTION.
4. AIR VANES SHALL BE MOTOR DRIVEN WITH AUTO-SWEEP.
5. INDOOR AND OUTDOOR UNITS SHALL BE FURNISHED WITH A THERMOSTATIC EXPANSION VALVE.
6. PROVIDE CONDENSATE PUMP WITH SAFETY FLOAT SWITCH TO SHUT DOWN UNIT IN CASE OF CONDENSATE OVERFLOW.
7. UNIT SHALL BE FURNISHED WITH LOW AMBIENT KIT.
8. PROVIDE AND INSTALL DISCONNECT, FUSE SIZED PER UNIT NAMEPLATE.

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NORTH CAROLINA REGISTERED 25996 SEAL ENGINEER DAVID L. CALE

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: MECHANICAL SCHEDULES

Division President: Robert Bishop, AIA
Job Captain: David L. Cale, P.E.
Drawn By: David L. Cale, P.E.
Date Drawn: 2/14/02
Drawing File Name: 5760M401
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000

Sheet M401 Of 6

CONSTRUCTION DOCUMENTS

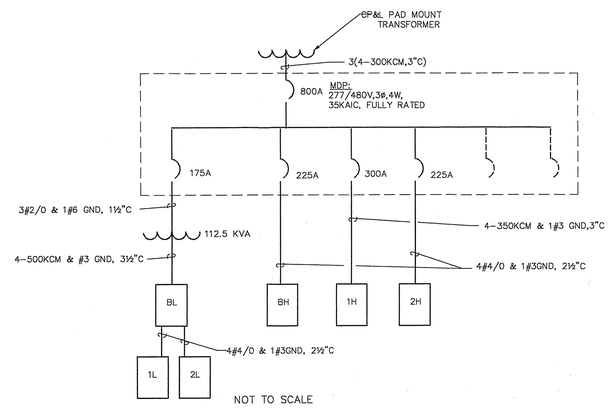
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OUTDOOR LIGHT FIXTURE SCHEDULE (CONTINUED)

TYPE	FIXTURE DESCRIPTION	MANUFACTURERS	CATALOG SERIES	LAMP INFORMATION			MOUNTING	TOTAL FIXTURE V.A.	REMARKS
				NO.	WATTAGE	TYPE			
OF4	FLAGPOLE SPOTLIGHT FIXTURE WITH BRONZE LENS RING FOR FLUSH MOUNTING IN CONCRETE OR MASONRY. STAINLESS STEEL HARDWARE. DRIVE-OVER CAPABILITY FOR VEHICLE UP TO 5,500 POUNDS. SURFACE TEMPERATURE SHALL BE LIMITED TO A LEVEL THAT IS NOT HAZARDOUS TO HUMAN TOUCH. 15° VERTICAL ADJUSTMENT & 360° SWIVEL.	KIM OR EQUIV. AS ACCEPTED BY A-E	LTV10SP 150 MH	1	ED17 MH	AUTOTRAN	FLUSH/W FIN. GRADE	199	NOTES 1 &2
OF5	TREE UPLIGHT, HID, IN GROUND, LONG SHROUD, BRONZE FINISH, COMPOSITE HOUSING.	HALCO OR EQUIV. AS ACCEPTED BY A-E	IBH1001 BCN4- HL	1	ED17 MH CLEAR 3200K	AUTOTRAN	IN GROUND	130	NOTES 1 &2
OD	TWIN TUBE FLUORESCENT BRICK SIZE STEP LIGHT.	KIM	EL 8051BL	1	95WTT		WALL	10	NOTES 1 &2
OF1	PIER BASE MOUNTED, 100WATT METAL HALIDE FIXTURE WITH VANDAL RESISTANT ACRYLIC LENS	STERNBERG OR EQUIV. AS ACCEPTED BY A-E	MS805A/650/ 469PB/100MH277/ R05/CSA/BLACK	1	100 MH	AUTOTRAN	PIER	130	NOTES 1 &2
OF2	POLE MOUNTED CAST ALUMINUM WITH VANDAL RESISTANT ACRYLIC LENS	STERNBERG OR EQUIV. AS ACCEPTED BY A-E	MS805A/380FPA/ 100MH277/R05/ CSA/BLACK	1	150 MH	AUTOTRAN	POLE	170	NOTES 1 &2
OK	CERAMIC METAL HALIDE FLOODLIGHT, EXTRUDED ALUM. REFLECTOR. THERMAL & IMPACT RESISTANT LENS.	ELIPTIPAR OR EQUIV. AS ACCEPTED BY A-E	M151-150G	1	GMH150/TG/G12 13,500 LUMENS	AUTOTRAN	GROUND	199	NOTES 1 &2
OL	HID WALL-PACK WITH CAST ALUM HOUSING	LITHONIA	TWH175M-277	1	175 MH		WALL	200	NOTES 1 &2

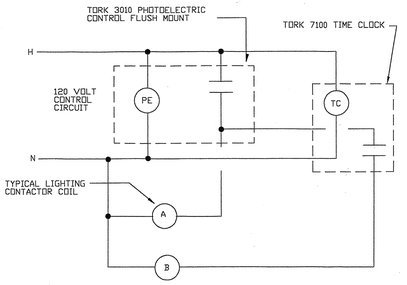
OUTDOOR LIGHT FIXTURE SCHEDULE NOTES

1. FIXTURES SHALL BE UL LISTED FOR WET LOCATION.
2. FIXTURES SHALL BE SUITABLE FOR LOW TEMPERATURE OPERATION.



NOT TO SCALE

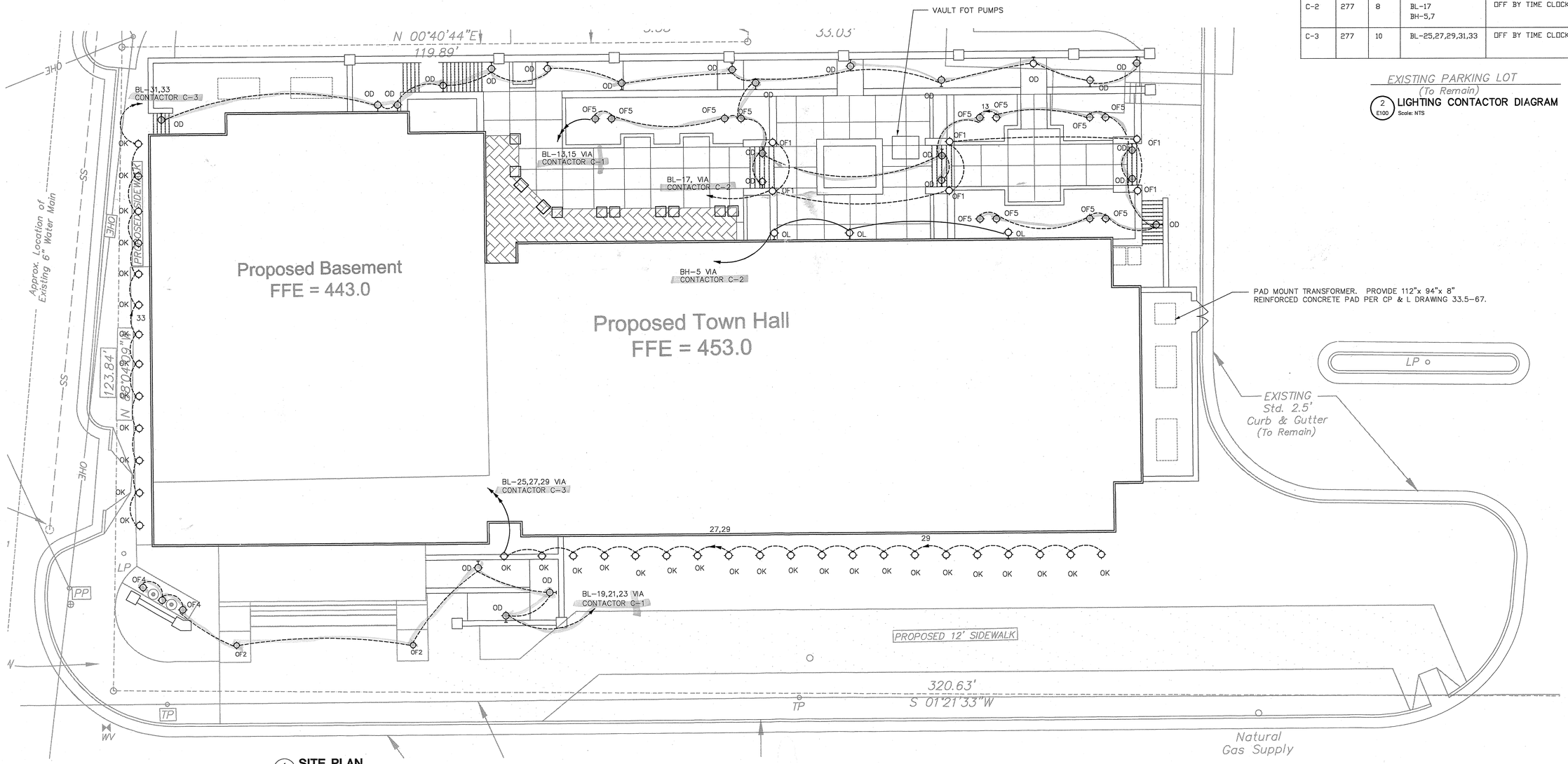
1-LINE DIAGRAM



SEQUENCE OF OPERATION

1. PHOTOCELL WILL TURN ON ALL LIGHTS AT DUSK AND TIME CLOCK WILL TURN OFF A PORTION OF THE LIGHTING AFTER HOURS.
2. TIME CLOCK IS TO BE SET "ON" AT 6:00 AM AND "OFF" AT MIDNIGHT.
3. DURING THE WINTER, ALL SITE LIGHTING WILL OPERATE IN THE MORNING FOR EARLY ARRIVING EMPLOYEES.
4. PHOTOCELL OVER-RIDES TIME CLOCK AND WILL NOT ALLOW SITE LIGHTING OR DOWNLIGHTS TO OPERATE DURING DAYLIGHT HOURS.

LIGHTING CONTACTORS				
	MAXIMUM CIRCUIT VOLTAGE	POLES	CIRCUIT SWITCHED	NOTE
C-1	277	10	BL-11,13,15,19,21,23	ON ALL NIGHT
C-2	277	8	BL-17 BH-5,7	OFF BY TIME CLOCK
C-3	277	10	BL-25,27,29,31,33	OFF BY TIME CLOCK



EXISTING PARKING LOT (To Remain)

2 E100 **LIGHTING CONTACTOR DIAGRAM**
Scale: NTS

1 E100 **SITE PLAN**
SCALE: 1/8"=1'-0"

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NORTH CAROLINA SEAL 3394 ENGINEER CHARLES F. HALL 5/9/02

Project: Holly Springs Town Hall
Holly Springs, North Carolina

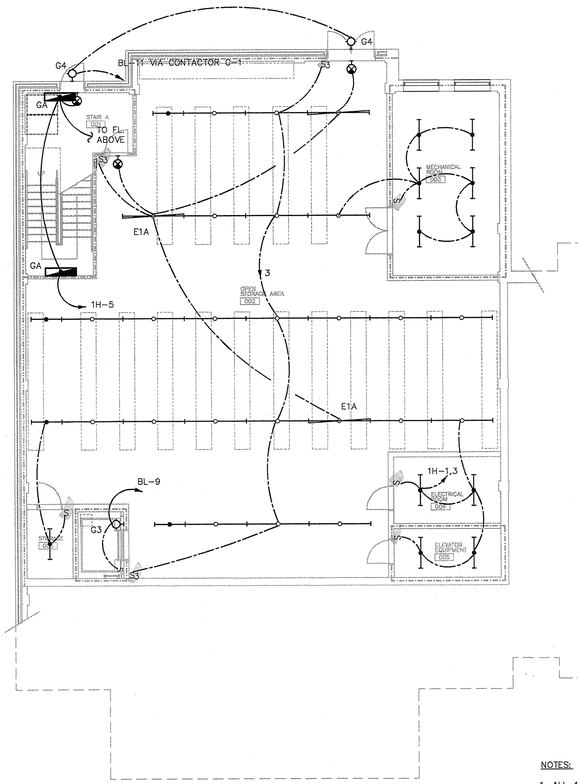
Sheet Title: SITE PLAN

Division President: M. MOBLEY, P.E.
Job Captain: C. HALL, P.E.
Drawn By: M BARKER
Date Drawn:
Drawing File Name: E100.DWG @1/8"=1'-0"
Revisions:
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000
Sheet: E100 Of

Drawing Scale: 1 = 96
Date: 05-03-02
Time: 10:07
File name: F:*.CEP\Civil\311576000\ELECTRICAL\E100S.DWG

CONSTRUCTION DOCUMENTS



3 E201 **LIGHTING PLAN - BASEMENT**
SCALE: 1/8" = 1'-0"

NOTES:

1. ALL 4' STRIP FIXTURES SHALL BE TYPE E, UNLESS OTHERWISE NOTED.

1. ALL 8' STRIP FIXTURES SHALL BE TYPE E1, UNLESS OTHERWISE NOTED.

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NORTH CAROLINA
REGISTERED
SEAL
3394
ENGINEER
CHERRESS F. HALL
5/3/02

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: **LIGHTING PLANS - BASEMENT**

Division President
M. MOBLEY, P.E.
Job Captain
C. HALL, P.E.
Drawn By
M Barker
Date Drawn

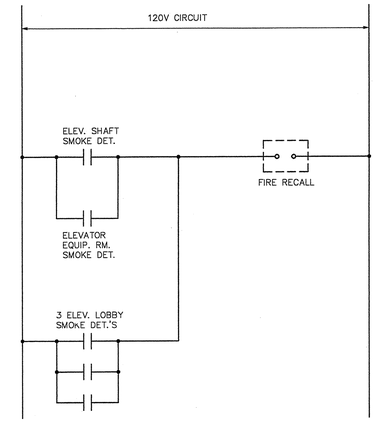
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Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

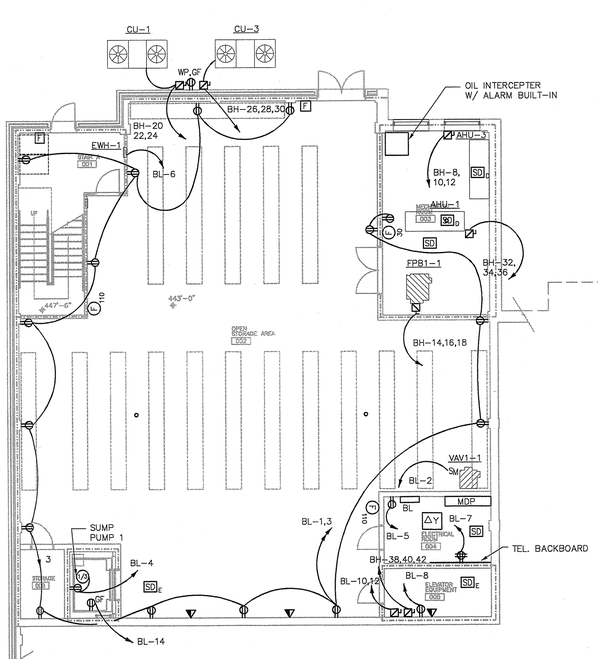
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CONSTRUCTION DOCUMENT

Drawing Scale: 1 = 38
Plot Date/Time: 09-16
User name: MBarker
File name: P:\...\CDs\Civil\511576000\ELECTRICAL\E201.dwg



2 / E301 **ELEVATOR RECALL DIAGRAM**
NOT TO SCALE



1 / E301 **POWER PLAN - BASEMENT**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. ALL DISCONNECT SWITCHES PROVIDED FOR FAN-POWERED BOXES AND VAV'S SHALL BE PROVIDED BY MECH. CONTRACTOR.

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NORTH CAROLINA REGISTERED SEAL 3394 ENGINEER CHARLES F. HALL 5/3/02

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: POWER PLAN- BASEMENT

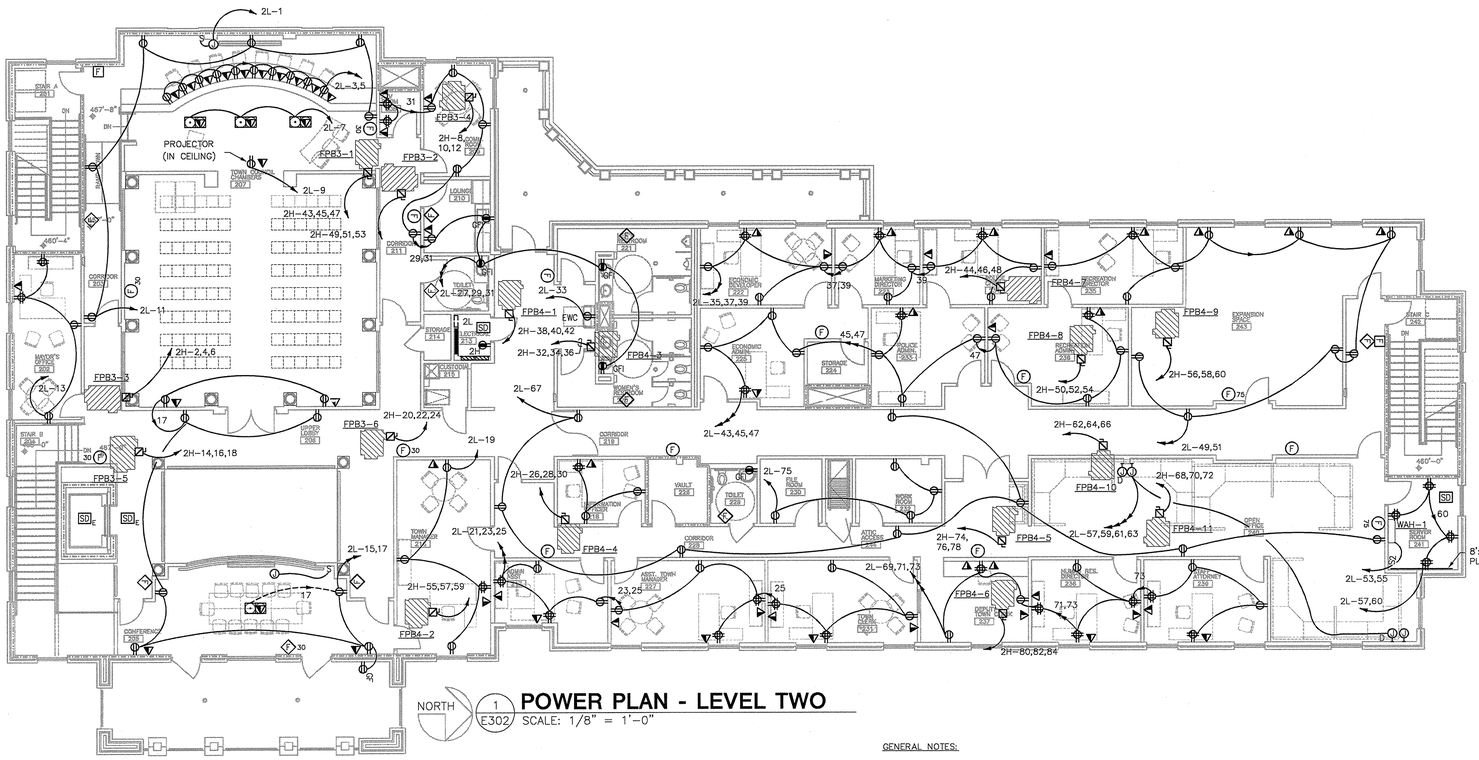
Division President: M. MOBLEY, P.E.
Job Captain: C. HALL, P.E.
Drawn By: M.Barker
Date Drawn:
Drawing File Name: E301.DWG @1/8"=1'-0"
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number: 511576000

Sheet: E301 Of

CONSTRUCTION DOCUMENTS

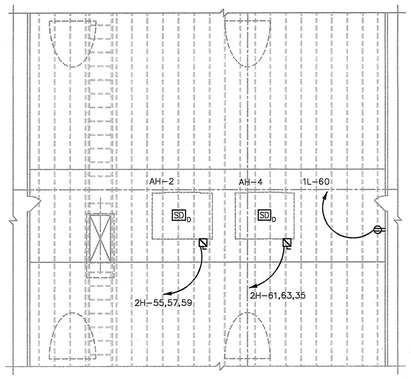
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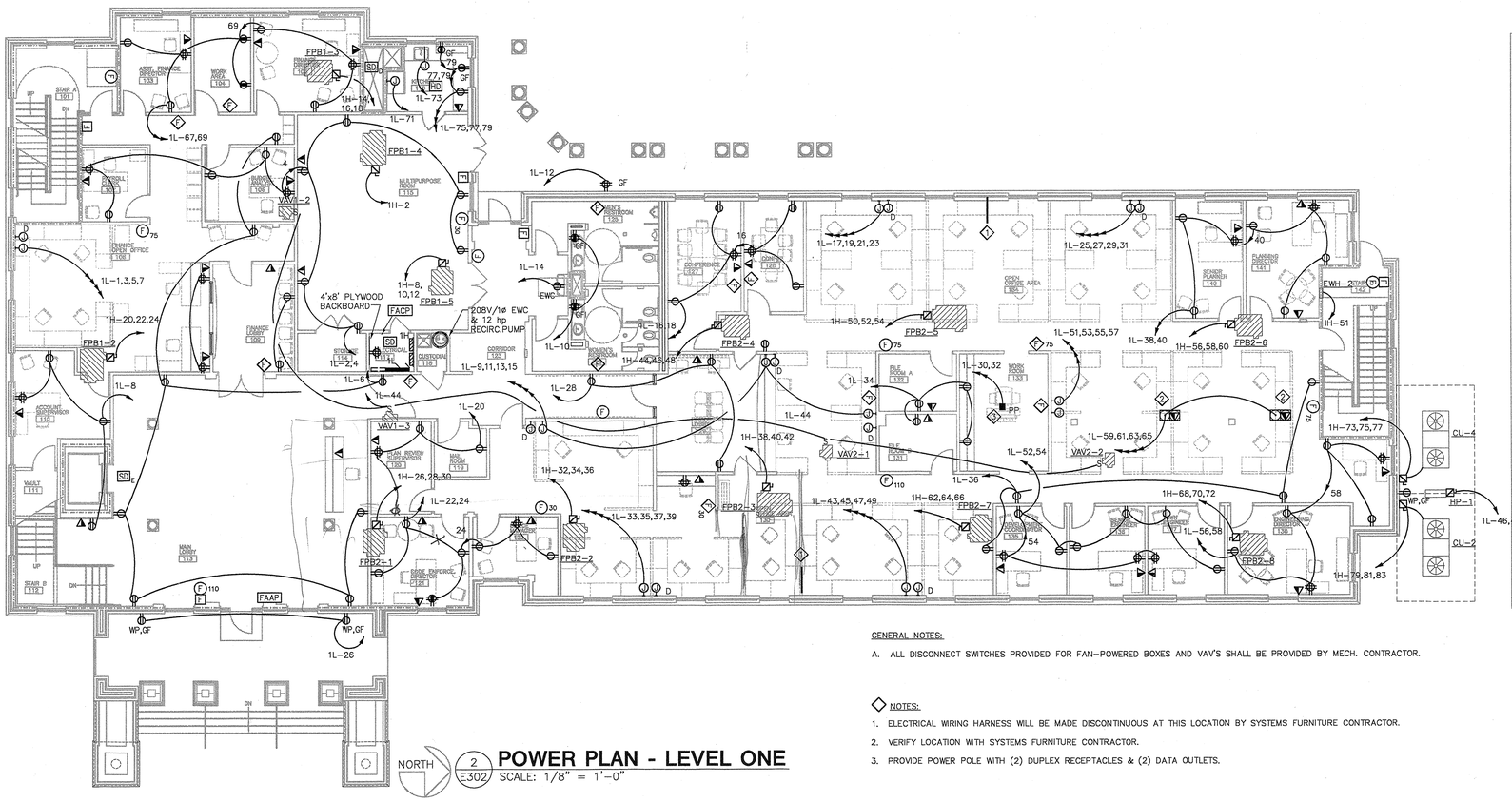
NORTH 1 E302 **POWER PLAN - LEVEL TWO**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. ALL DISCONNECT SWITCHES PROVIDED FOR FAN-POWERED BOXES AND VAV'S SHALL BE PROVIDED BY MECH. CONTRACTOR.



NORTH 4 E302 **PARTIAL ATTIC PLAN**
SCALE: 1/8" = 1'-0"



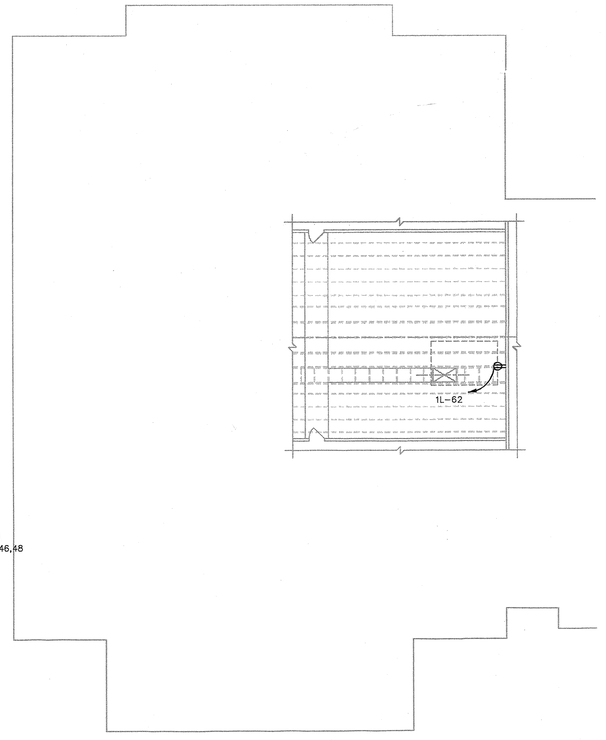
NORTH 2 E302 **POWER PLAN - LEVEL ONE**
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. ALL DISCONNECT SWITCHES PROVIDED FOR FAN-POWERED BOXES AND VAV'S SHALL BE PROVIDED BY MECH. CONTRACTOR.

◇ NOTES:

1. ELECTRICAL WIRING HARNESS WILL BE MADE DISCONTINUOUS AT THIS LOCATION BY SYSTEMS FURNITURE CONTRACTOR.
2. VERIFY LOCATION WITH SYSTEMS FURNITURE CONTRACTOR.
3. PROVIDE POWER POLE WITH (2) DUPLEX RECEPTACLES & (2) DATA OUTLETS.



NORTH 3 E302 **PARTIAL ATTIC PLAN**
SCALE: 1/8" = 1'-0"

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 3394 CHARLES C. HALL 5/3/02

Project: Holly Springs Town Hall
Holly Springs, North Carolina

Sheet Title: **POWER PLANS - LEVELS ONE & TWO**

Division President
M. MOBLEY, P.E.
Job Captain
C. HALL, P.E.
Drawn By
M.Barker
Date Drawn

Drawing File Name
E302.DWG @1/8"=1'-0"
Revisions
No ____ Date ____
Issue Date: April 30, 2002

Project Number
511576000

Sheet E302 Of

CONSTRUCTION DOCUMENT

Drawing Scale: 1 = 98
Plot Date/Time: 04/29/02 Time: 11:50
User name: MBARKER
File name: P:\T CEP\Core\511576000\ELECTRICAL\e302.dwg